

Index to Volume 15

INDEX OF ORIGINAL ARTICLES

- Abdomen, carcinoma of, and caffeine intake, report on, 1261-1263
- ABEL, ARTHUR R., *fr. su.*, 118-121
- Acanthosis nigricans, benign, report on, 375
- malignant, site and histology of cancers associated with, 364-382
- pseudo, report on, 375
- Acid(s). *See specific names*
- glutamic, in combination with vincetubulin therapy for solid disseminated human cancer, effect on mitoses in bone marrow in, 296, 298-303
- 3-methoxy-4-hydroxymandelic, urinary excretion of, in children with neuroblastoma, report of, 978-986
- serum uric, in disseminated neoplastic disease other than lymphoma and leukemia, determination of, 122, 127
- uric, in disseminated neoplastic disease, levels of, 122-129
- Acridine orange, in histochemical identification of megakaryocytes from peripheral blood examined for tumor cells, use of, 259-262
- Actinomycin D, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 274-283
- Adamantinoma(s), of long bones, fibrous dysplasia associated with, 515-521
- Adenocarcinoma(s). *See also specific sites*
- anaplastic, histological factors affecting prognosis in, 506-509
- as type of cancer associated with malignant acanthosis nigricans, report on, 364-382
- differentiated, histological factors affecting prognosis in, 509
- endometrial, increased histaminolytic power of plasma in, 271-275
- gastric polyp, report of, 468-471
- lung, histological factors affecting prognosis in, 504-514
- metastatic, to liver, in South African Bantu, histochemical study of hydrolytic enzymes in, 855-864
- nasopharynx, characteristics of, 905, 906, 907
- palliation of, by regional perfusion of chemotherapeutic agents, report on, 830-845
- renal, differentiation of metastasis from hemangioendothelioma and, 849
- Adrenal(s), lymphangioma of, locally invasive, case reports on, 1165-1169
- Adrenal cortex, benign oncocytomas of, description of, 1023
- hyperplasia of, in bronchogenic carcinoma, 1118
- with peptic ulcer, report on, 1118
- in men with carcinoma of lung, hyperplasia of, 112
- malignant oncocytomas of, description of, 1025
- Africa, North, as place of origin, and thyroid cancer, report on, 1125, 1126, 1127, 1128
- Age, and incidence of nasopharyngeal cancer, report on, 922
- as factor, in development of breast carcinoma, 4-quadrant study of surgical specimens in relationship to, 11-15
- in development of cancer in Lebanon and Near East, epidemiological report of, 71-72
- in effect of massive estrogen therapy in premenopausal women with advanced breast cancer, report on, 642-644
- in incidence of male and female genital tract cancer in Singapore, report on, 357, 361-363
- in patient delay with reference to stage of cancer, report of, 50-56
- at time of artificial menopause, and later development of cancer of breast, epidemiological study of, 28-35
- incidence of, mammary lymphosarcoma according to, 1264-1268
- oral cancer according to, report on, 1120, 1121
- patients with upper respiratory tract solitary extramedullary myeloma according to, 1149
- thyroid cancer according to, in Israel, report on, 1125, 1126, 1127, 1128
- of patients, with adenocarcinoma of lung, and histological factors affecting prognosis, report on, 504-514
- with arachnoid sarcoma of cerebellum, data on, 705, 706
- with benign and malignant giant cell tumors of bone, incidence of, 664-665, 684-685, 689
- with cancer of tongue, incidence rates and, 1086, 1087
- with fasciitis, report on, 993, 995
- with lung cancer, and sex differences in relation to survival, 428-432
- with mucocutaneous tumors of major and minor salivary glands, frequency rates for, 801, 803, 816
- with nasopharyngeal cancer, distribution of, 895-896, 908-909
- race, and parity, of patients with embryonal carcinoma of ovary, report on, 546, 548-549
- AGOSTINO, DOMENICO, *fr. su.*, 276-283
- ANN, K. J., *fr. su.*, 1100-1116
- Air pollutant(s), gasoline engine exhaust as chemical study of in relationship to carcinogenesis, 93-102
- development of papillomas and cancers in, 104
- potency of gasoline engine exhaust "tar" and cigarette smoke condensate in, 105
- Air pollution, analysis of epidemiological evidence of carcinogenesis by, 79-92
- possible role as cofactor with cigarette consumption in incidence of lung cancer, 88-89
- from gasoline engine exhaust, carcinogenesis by, 93-102
- Albumin, serum, Armour bovine, and Ringer's solution, as protein medium for cervical cells, experimental, 1176-1177
- Alcohol, as etiological factor in cancer of mouth, pharynx, and larynx, report of, 252, 253
- as possible etiological factor in development of carcinoma of esophagus, report of, 733-740
- ALD. *See* Aldolase
- Aldolase, in patients with cancer, levels of, 927-930, 931-935
- in patients with gastrointestinal carcinoma, study of, 346-353
- Alkylating agent(s), cyclophosphamide as, use of in treatment of cancer in children, report of, 42-49
- enzyme-alterable, use of in cancer chemotherapy, report on, 1041-1072
- Amethopterin (Methotrexate), as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293
- 4-Amino-N¹⁰-methyl pteroylglutamic acid, used in continuous hepatic artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488
- Amputation, and administration of cortisone, in experimental study, effect of on pulmonary metastases, report on, 227-231
- time factor involved in, 228-231
- schedules of cortisone treatment in, 227, 228-231
- Amyloid, tumor, in upper respiratory tract solitary extramedullary myeloma, 1152, 1153, 1154
- Anatomic site of origin, of cancer of tongue, report on, 1086-1087, 1088
- ANDERSON, MILTON W., *fr. su.*, 522-538
- Androgen(s), fluoxymesterone as, use in treatment of advanced breast cancer, comparison of with effect of oral 11 β -hydroxy-17 α -methyltestosterone, report of, 726-732
- in treatment of breast cancer metastases, comparison of results with those for hexestrol, report on, 193, 194
- Androgenicity, in patients treated with testosterone and 2,2-dimethyl dihydrotestosterone, report on, 439, 440
- Androstan-3,11-dione-17 β -hydroxy, 17-methyl, use of in treatment of advanced breast cancer, report on, 330-333
- Anemia, aregenerative, and thymoma, 1248-1249, 1257
- as etiological factor in cancer of mouth, pharynx, and larynx, report of, 249-258
- ANSFIELD, FRED J.; OLSON, KENNETH B., and RASCH, OPAL: The use of androstan-3,11-dione-17 β -hydroxy, 17-methyl (compound NSC 19605) in the treatment of advanced breast cancer, 330-333
- fr. su.*, 1209-1217
- Antibiotic(s), treatment of patients with chronic lymphatic leukemia and infections by, 310-329
- use of, in study of relation of clinical and tissue response to chemotherapeutic action on human cancer, report on, 284-293
- Anticoagulant(s). *See also specific names*
- effect of, on development of metastatic cancer, experimental study of, 276-283
- Antimetabolite(s), continuous hepatic artery infusion of, in treatment of primary and metastatic cancer of liver, report on, 472-488
- Antrum, and nasopharynx, solitary extramedullary myeloma of, 1149-1151, 1152, 1154
- solitary extramedullary myeloma of, 1149-1151, 1152, 1154
- ANUS. *See also* Colon and Rectum
- Appearance, clinical, of oral cancer lesions, report on, 1120, 1121-1122, 1124
- Arachnoid, of cerebellum, sarcoma of, report of, 705-716
- ARONS, MARVIN S.; WEXLER, HILDA; SAREIN, SEYMOUR M., and MANTEL, NATHAN: Effect of cortisone and amputation on metastases, 227-231
- ARRAZTOA, J., *fr. su.*, 189-196
- Arteriosclerosis, and geography, 1128
- Artery(ies), hepatic, continuous infusion of antimetabolites via, in treatment of primary and metastatic cancer of liver, report on, 472-488
- trabecular, adventitial lymphatics of, appearance of, in cases of infectious mononucleosis and lymphopneumous leukemia, report on similarity of, 870-875
- Asbestos, as lung carcinogen, 1185-1186
- Asbestosis, and lung carcinoma, report on, 1181-1187
- Asia, as place of origin, and thyroid cancer, report on, 1125, 1126, 1127, 1128
- ATKINS, HAROLD L.; GREGG, H. GILMORE, and HYMAN, GEORGE A.: Clinical appraisal of cyclophosphamide in malignant neoplasms, 1076-1080

- Atypia, stromal, in benign and malignant giant cell tumors of bone, report of, 657-690**
- Autopsy, See Radioactive gold**
- Autopsy, incidence of metastatic thyroid cancers found at time of, 561, 564**
- report on, bronchogenic carcinoma and peptic ulcer, incidence of, 1117**
- bronchogenic carcinoma, incidence of, 1117**
- peptic ulcer, incidence of, 1117**
- AVERETTE, HENRY E.; HUDSON, RICHARD C.; VIANONTE, MANUEL I., JR.; PARKS, RAYMOND E., and FERGUSON, JAMES H.: Lymphangiography (lymphography) in the study of female genital cancer, 769-775**
- Awareness, patient's, of lesion, of oral cancer, report on, 1122**
- 8-Azaguanine, intra-arterial infusion of, for localized inoperable neoplasm, report on, 1156-1164**
- AZAR, HENRY A.: Cancer in Lebanon and the Near East, 66-78**
- BAKAL, DANIEL, Jr. et al., 1056-1061**
- BARCLAY, T. H. CRAWFORD, and PHILLIPS, A. J.: The accuracy of cancer diagnosis on death certificates, 5-9**
- Basophil(s), hyalinized, in men with carcinoma of lung, levels of, 113-114**
- BASS, J. W., Jr. et al., 628-632**
- BASU, ARUN, Jr. et al., 39-41**
- BAUER, WALTER C.; EDWARDS, DAVID L., and MCGAVRAN, MALCOLM H.: A critical analysis of laryngectomy in the treatment of epidermoid carcinoma of the larynx, 263-270**
- BERG, JOHN W.; DeCOSSE, JEROME J.; FRACCHIA, ALBERT A., and FARROW, JOSEPH: Stromal sarcomas of the breast. A unified approach to connective tissue sarcomas other than cystosarcoma phylloides, 418-424**
- and ROBBINS, GUY F.: A late look at the safety of aspiration biopsy, 826-827**
- Jr. et al., 759-768, 1264-1268**
- BERGE, T. O., Jr. et al., 628-632**
- BERNIER, JOSEPH L., Jr. et al., 801-817**
- BERRETT, ARNOLD, Jr. et al., 472-488**
- BEST, ROLAND, Jr. et al., 1041-1055**
- Beverages, with caffeine, intake of, and gastric carcinoma, report on, 1261-1263**
- BRASKAR, SURINDER N., and BERNIER, JOSEPH L.: Mucoepidermoid tumors of major and minor salivary glands. Clinical features, histology, variations, natural history, and results of treatment for 144 cases, 801-817**
- Biochemistry, of malignant hepatoma in South African Bantu, report on, 855-864**
- Biopsy, aspiration, in diagnosis of benign and malignant giant cell tumors of bone, use of, 663-664**
- safety of, report on, 826-827**
- excision, benign, specimens of, comparison with findings for 4-quadrant study of breasts removed for carcinoma, 10-17**
- Block dissection, and thyroidectomy, for cancer, 1132, 1134-1135, 1136**
- homolateral and prophylactic contralateral, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136**
- prophylactic, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136**
- Blood. See also Serum(s)**
- ABO groups, in relationship to female breast and genital organ cancer in India, study of, 39-41**
- cancer cells in, method for cytological detection of, 171-175**
- circulating, cancer cells in, relationship of operation and manipulation of, 232-240**
- large benign cells in, significance of in identification of cancer cells, report on, 972-977**
- groups, distribution of, and incidence of cancer in Lebanon and Near East, epidemiological report of, 76**
- problem of multiple causative factors in, 89**
- peripheral, examined for tumor cells, histochemical identification of meg-**
- Blood—(Contd.)**
- akaryocytes from, 259-262**
- plasma, from patients with endometrial adenocarcinoma, increased histaminase values in, 271-275**
- studies of, in uniovular twins with acute leukemia, report on, 540**
- vessel, invasion of in cancer of uterine cervix, report on, 1269-1274**
- BOESEN, EVELYN, Jr. et al., 338-345**
- Bombay, some observations on oral and pharyngeal carcinomas in, 578-583**
- Bone(s), benign and malignant giant cell tumors of, clinicopathological analysis of natural history of, 653-690**
- destruction of, in upper respiratory tract solitary extramedullary myeloma, 1152**
- giant cell tumors of, benign and malignant, clinicopathological analysis of, 653-690**
- hemangioendothelioma of, 846-854**
- long, adamantinoma of, fibrous dysplasia associated with, 515-521**
- marrow, mitoses in, in cases of solid disseminated human cancer, effect of vincalukoblastine on, 296-306**
- studies of in uniovular twins with acute leukemia, report on, 540**
- metastasis to, from thyroid cancer, report on, 1133, 1134, 1136**
- BONGLIN, NILS ERIK, and WILBERT, BENGT: Increased histaminolytic power of plasma in endometrial adenocarcinoma, 271-275**
- Bovine wart vaccine, in treatment of laryngeal papilloma, report on, 1221-1223**
- BOWDEN, LEMUEL: Adenocarcinoma in a small gastric polyp. A case report, 468-471**
- Bowel, carcinoma of, glycolytic and oxidative enzymes and transaminases in patients with, 346-353**
- Brain, arachnoidal sarcoma of cerebellum of, report of, 705-716**
- human, tumors of, localization of octiodifluorescein- I^{125} (OIF- I^{125}) in, 153-159**
- excretion, blood levels, and distribution of OIF- I^{125} in, 155**
- uptake ratio between brain tumor and normal brain in, 156-157**
- comparison of I^{125} -labeled brain tumor localizing agents, radioiodinated serum albumin, and diiodofluorescein- I^{125} in, 158**
- metastasis to, electroencephalogram in detection of, report on, 1138-1141**
- of leukemic mice, isologous cell-free centrifugates and filtrates from, leukemia-accelerating potency of, in newborn AKR mice, report of, 750-758**
- postirradiation fibrosarcoma of, report on, 617-622**
- BRAUNSTEIN, HERBERT; FREIMAN, DAVID G.; THOMAS, WILLIAM, JR., and GALL, EDWARD A.: A histochemical study of the enzymatic activity of lymph nodes. II. Further investigation of normal and hyperplastic lymph nodes, 130-138**
- FREIMAN, DAVID G.; THOMAS, WILLIAM, JR., and GALL, EDWARD A.: A histochemical study of the enzymatic activity of lymph nodes. III. Granulomatous and primary neoplastic conditions of lymphoid tissue, 139-152**
- A histochemical study of the enzymatic activity of human neoplasms. I. Evidence suggesting deficiency of a succinoxidase carrier, 184-188**
- Breast, approach to connective tissue sarcomas other than cystosarcoma phylloides of, 418-424**
- cancer of, advanced, antitumor efficacy of 2a-methyl dihydrotestosterone propionate in case of, 176-178**
- antitumor efficacy of prednisone and sodium liothyronine in, 334-337**
- hormonal therapy in, 726-732**
- use of androstan-3,11-dione-17 β -hydroxy-17-methyl (compound NSC 19605) in treatment of, 330-333**
- Breast, cancer of—(Contd.)**
- diagnosis of by aspiration biopsy, safety of, 826-827**
- effect of 2a-methyl-5a-dihydrotestosterone on clinical course and hormonal excretion in, 987-991**
- oral administration of Δ^1 -testolactone on clinical course and hormonal excretion in, 633-635**
- testolactone or testosterone propionate on clinical course and hormonal excretion in, 636-640**
- in Lebanon and Near East, epidemiological report of, 66-78**
- in women, antitumor, endocrine, and metabolic effects of 16a-estradiol dipropionate on, 1073-1075**
- incidence of in Singapore, report on, 354-363**
- influence of previous hysterectomy on development of, 28-38**
- metastases from, metastasis syndrome and effectiveness of subcutaneous implantation of hexestrol in treatment of, 189-196**
- method of evaluating clinical results in, 189**
- "index of regression" used in, 189**
- metastatic, massive estrogen administration in premenopausal women with, report on, 641-648**
- carcinoma of, advanced, treatment of with 17a-hydroxyprogesterone caproate, report on, 1218-1220**
- operable, with proved positive internal mammary and/or highest axillary nodes, survival and results after 2-million volt irradiation in treatment of, 383-386**
- 4-quadrant study of surgical specimens of, 10-17**
- microscopic distribution of cystic proliferation in, 11-17**
- grading of benign epithelial proliferative activity in, 11-17**
- nodal metastases in, 11, 12**
- atypical hyperplasia in, 12-17**
- female, and genital organs, cancer of, in India, study of ABO blood groups in relationship to, 39-41**
- in men with carcinoma of lung, hyperplastic alterations in, 112**
- lymphosarcoma of, primary, report on, 1264-1268**
- papillary tumors of, differential diagnosis of, 444-455**
- BREEN, JAMES L., Jr. et al., 546-556**
- BRENNAN, M. J., Jr. et al., 294-301**
- BROCK, DONALD R., Jr. et al., 733-740**
- BROGHAMER, W. L., Jr. et al., 1176-1180**
- Bronchoscopy, in diagnosis of oat cell lung cancer, results of, 764-765**
- Bronchus(i), epithelium of, in infants and children, changes in, study of, 118-121**
- mucosa, of dogs, effect of cigarette smoke condensate, 1100-1116**
- Buccal cavity, cancer of, retrospective study of etiological factors in, 246-258**
- BUDINGER, JOHN M., Jr. et al., 307-329**
- Burma, incidence of male and female genital tract cancer in, discussion of, 357**
- Caffeine, intake of, and gastric carcinoma, report on, 1261-1263**
- Canada, diagnosis of cancer recorded on death certificates in, accuracy of, 5-9**
- Cancer(s). See also Carcinoma(s) and specific anatomical sites and types of cancer**
- advanced, use of saline frontal lobotomy for relief of pain from, 890-894**
- anaplastic, associated with malignant acanthosis nigricans, report on, 370-377**
- and colonic polyps, ultrastructure of, with special reference to epithelial inclusion bodies of Leuchtenberger, report of, 160-170**
- associated with malignant acanthosis nigricans, site and histology of, 364-382**
- breast, advanced, antitumor efficacy of 2a-methyl dihydrotestosterone propionate in cases of, 176-178**

- Cancer(s), breast, advanced—(Contd.)**
 antitumor efficacy of prednisone and sodium liothyroxine in, 334-337
 effect of oral 11 β -hydroxy-17 α -methyltestosterone compared with fluoxymesterone on clinical course of, 726-732
 treatment of with 17 α -hydroxyprogesterone caproate, report on, 1218-1220
 use of androstano-3,11,dione-17 β -hydroxy, 17-methyl (compound NSC 19605) in treatment of, 330-333
 and genital organs, female, in India, study of ABO blood groups in relationship to, 39-41
 diagnosis of by aspiration biopsy, safety of, 826-827
 effect of 2 α -methyl-5 α -dihydro-testosterone on clinical course and hormonal excretion in, 987-991
 of oral administration of Δ^1 -testosterone on clinical course and hormonal excretion in, 633-635
 of testosterone or testosterone propionate on clinical course and hormonal excretion in, 636-640
 in women, antitumor, endocrine, and metabolic effects of 16 α -estradiol dipropionate on, 1073-1075
 influence of previous hysterectomy on development of, 28-38
 metastases from, metastasis syndrome and effectiveness of subcutaneous implantation of hexoestrol in treatment of, 189-196
 metastatic, massive estrogen administration in premenopausal women with report of, 641-648
 cells, histochemical identification, of megakaryocytes from peripheral blood examined for, 259-262
 in blood, method for cytological detection of, 171-175
 in circulating blood, relationship of to operation and manipulation, report of, 232-240
 chemotherapy of, use of enzyme-alterable alkylating agents in, report on, 1041-1072
 cyclophosphamide as therapy for, clinical appraisal of, 1076-1080
 diagnosis of, on death certificates, accuracy of, 5-9
 disseminated, hyperuricemia associated with, 122-129
 vincleukoblastine therapy for, cytological and clinical observations on, 294-306
 early, of mouth, cytological screening for, interim report on, 1119-1124
 experimentally implanted, further studies on topical chemotherapy in, 584-590
 familial, incidence of in Lebanon and Near East, epidemiological report of, 75-76
 gastric, and caffeine intake, report on, 1261-1263
 genital tract, in men and women in Singapore, report on, 354-363
 gynecologic, incidence of in Lebanon and Near East, epidemiological report of, 75-76
 human, further investigation of relation between clinical and tissue culture response to chemotherapeutic agents in, 284-293
 regional perfusion as chemotherapy for, 828-845
 in aging twins, comparative data on, 1009-1018
 in children, cyclophosphamide in treatment of, 42-49
 in laboratory animals, development of after painting with engine exhaust gas "tar" or tobacco smoke condensate, incidence of, 104-108
 in Lebanon and Near East, epidemiological report of, 66-78
 lung, and asbestosis, 1181-1187
 epidemiological study of air pollutants as possible causative factor in, 79-92
 radio- and chemotherapy for, re-
- Cancer(s), lung—(Contd.)**
 port on, 1209-1217
 role of polynuclear aromatic hydrocarbons in automobile exhaust "tar" in development of, 93-102
 sex differences in survival of patients with, 425-432
 metastatic, effect of alterations in clotting mechanism on, 276-283
 multiple, associated with malignant acanthosis nigricans, report on, 373-374
 primary, of mouth, pharynx, and larynx, retrospective study of etiological factors in, 255-256
 nasopharyngeal, clinical and radiotherapeutic considerations of, 921-926
 oat cell, of lung, report of, 759-768
 of female genitals, use of lymphangiography (lymphography) in diagnosis of, 769-775
 of liver, primary and metastatic, effects of continuous hepatic artery infusion of antimetabolites on, 472-488
 of pelvic organs, mitotic-stimulating effect of serum from patients with, 396-399
 thyroid, familial influences in, 241-245
 incidence in Israel of, report on, 1125-1129
 treatment of, in Israel, report on, 1130-1137
 of tongue, report on, 1085-1099
 of uterine cervix, advanced, combined hormonal and irradiation therapy of, 437-443
 oral, clinical appearance of, report on, 1120, 1121-1122, 1124
 cytological classification of, 1120, 1123
 early, cytological screening for, interim report on, 1119-1124
 incidence of, in U.S., 1120
 patient awareness of lesion, report on, 1122
 retrospective study of etiological factors in, 246-258
 site of, report on, 1121, 1122
 size of, report on, 1122
 preterminal, effect of virus of Venezuelan equine encephalomyelitis as antineoplastic agent on, 628-632
 primary, multiple, of mouth, pharynx, and larynx, etiological factors involved in, 255-256
 squamous cell, associated with malignant acanthosis nigricans, report on, 372
 stage of, patient delay with referral to, 50-56
 uterine cervix, blood vessel invasion in, report on, 1269-1274
 Cannulation, of hepatic vein, to determine carbohydrate metabolism, 1190, 1191
 Carbohydrate(s), metabolism of, in carcinomas, tests to determine, 18-27
 Carcinogen(s). *See also specific names*
 Carcinogenesis, by air pollution, analysis of epidemiological evidence of, 79-92
 comparison of urban-rural lung cancer rates in, 80, 81-84
 isolation and identification of polynuclear aromatic hydrocarbons from gasoline engine exhaust condensate, significance of, 93-102
 by gasoline engine exhaust condensate, report of, 103-108
 recovery of "tar" in, 103
 gastric, and caffeine intake, report on, 1261-1263
 nuclear water content during, report on, 1176-1180
Carcinoma(s). *See also Cancer(s) and specific anatomical sites of types of carcinoma*
 adenoid cystic, of nasopharynx, characteristics of, 905, 910
 adenosquamous, histological factors affecting prognosis in, 509
 breast, advanced, treatment of with 17 α -hydroxyprogesterone caproate, report on, 1218-1220
 operable, with proved positive internal mammary and/or highest axillary nodes, survival and results after 2-million volt irradiation in treatment of, 383-386
 4-quadrant study of surgical specimens of, 10-17
 bronchioloalveolar, histological factors affecting prognosis in, 505-506
 bronchogenic, glycolytic and oxidative enzymes and transaminases in patients with, 931-935
 Brown-Pearce, of rabbits, as experimental tumor used in study of effects of alterations in clotting mechanisms in development of metastatic cancer, report on, 276-283
 combined cell, of nasopharynx, characteristics of, 905, 906
 colon and rectum, time of occurrence of pulmonary metastasis from, 387-395
 diffuse, of nasopharynx, characteristics of, 903, 904-905
 epidermoid, classical, of nasopharynx, characteristics of, 897, 900
 mucosal or clear cell, of nasopharynx, characteristics of, 897, 900
 of larynx, treated by laryngectomy, analysis of, 263-270
 spindle cell, of nasopharynx, characteristics of, 897, 898, 900-901
 transitional cell, of nasopharynx, characteristics of, 898, 899, 901
 esophageal, intraepithelial carcinoma concomitant with, report of, 733-740
 gastric, and caffeine intake, report on, 1261-1263
 gastrointestinal, glycolytic and oxidative enzymes and transaminases in, study of, 346-353
 head and neck, epidermoid, clinicopathological study of, 741-749
 in situ, of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1104, 1105-1108, 1111, 1112, 1114, 1115
 as result of rubbing manipulation, 1104, 1105-1108, 1112-1113, 1114, 1115
 intraepithelial, occurring with esophageal carcinoma, report of, 733-740
 lung, and asbestosis, report on, 1181-1187
 and peptic ulcer, concurrence of, report on, 1117-1118
 in men, endocrine and other changes in, 109-117
 radio- and chemotherapy for, report on, 1209-1217
 relationship to cigarette smoking, 1114, 1115
 of pinna, radiation therapy for, 57-65
 oral and pharyngeal, in State of Bombay, some observations on, 578-583
 ovarian, embryonal, report on, 546-556
 papillary, of breast, gross and microscopic appearance of, 448-455
 secondary, involving lymphatics of spleen, report on, 884, 886, 887
 simplex, of nasopharynx, characteristics of, 902, 903, 904-905
 squamous cell, in head and neck, role of supravoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
 of cervix, lymphangiadenographic study of, 769, 770, 772
 of esophagus, alcohol as possible etiological factor in development of, 733-740
 palliation of, by regional perfusion of chemotherapeutic agents, report on, 830-845
 thyroid, metastatic, pathological and clinical findings for, 557-565
 treatment of, in Israel, report on, 1130-1137
 uterine cervix, blood vessel invasion in, report on, 1269-1274
 Vx2, as experimental tumor used in study of effects of alterations in clotting mechanisms in development of metastatic cancer, report on, 276-283
Carcinomatosis(es), tests of carbohydrate metabolism in, 18-27

- Carcinosarcoma(s)**, of nasopharynx, characteristics of, 908-909
- 256 Walker, cells of, in rats, as experimental tumor used in study of effects of alterations in clotting mechanisms in development of metastatic cancer, report on, 276-283
- CAREY, ROBERT J., *jt. su.*, 241-245
- CARROLL, CHARLES F., JR., *jt. su.*, 606-610
- CARTER, ANNE C., *jt. su.*, 1073-1075
- CARTER, ROBERT E., *jt. su.*, 750-758
- Cartilage, underlying lesions, role of radiation therapy and, 57-65
- CASTAÑEDA, ELVIA, *jt. su.*, 437-443
- CASTLEMAN, BENJAMIN, *jt. su.*, 456-467
- Castration, and later development of cancer of breast, epidemiological study of, 28-38
- and massive estrogen therapy for advanced breast cancer, report on, 646
- Catheterization, of hepatic artery, for continuous infusion of antineoplastic agents as therapy for primary and metastatic cancer of liver, report on, 472-475, 476
- complications of technique of, 475
- CB 1348. See Chlorambucil
- CB 3025. See Phenylalanine nitrogen mustard
- Cell(s)**. See also Cytology
- basal, in infants and children, hyperplasia of, 118-121
- blood, white counts of, in patients with chronic lymphatic leukemia and infections, report on, 314-329
- bronchial, epithelial, in infants and children, study of changes in, 118-121
- cancer, effects of alterations in clotting mechanisms in development of metastases of, 276-283
- identification of, significance of large benign cells in circulating blood and, 972-977
- in blood, method for cytological detection of, 171-175
- in cerebrospinal fluid, cytological examination of, 591-597
- in circulating blood, relationship of to operation and manipulation, report of, 232-240
- use of prophylactic chemotherapy at time of operation in, 238-239
- cervical, nucleus of, water content of during carcinogenesis, experimental, 1176-1180
- clear, in mucoepidermoid tumors of major and minor salivary glands, histological features of, 804, 805, 806, 808
- columnar, in mucoepidermoid tumors of major and minor salivary glands, histological features of, 808
- differentiated and undifferentiated malignant mesothelioma, identification of in pleural effusions, use of exfoliative cytology for, 691-704
- endothelial, as large benign cells in circulating blood, significance of in identification of cancer cells, report on, 972-977
- epidermoid, mucoepidermoid tumors of major and minor salivary glands, histological features of, 808
- epithelial, oncocytes as, definition of, 1019
- germ, as source of origin of embryonal carcinoma of ovary, report on, 546-556
- germinal center, in normal and neoplastic lymph nodes, investigation of, 133, 134-135
- giant, in benign and malignant tumors of bone, clinicopathological analysis of, 653-690
- in arachnoidal sarcoma of cerebellum, microscopic description of, 710-716
- in granulomatous and primary neoplastic conditions of lymphoid tissue, histochemical study of enzymatic activity of, 139-152
- Kupffer, in malignant hepatoma in South African Bantu, appearance of, 858-862
- large benign, in circulating blood,
- Cell(s)**—(Contd.)
- significance of in identification of cancer cells, report on, 972-977
- leukemic, in mice, appearance of after injection of isologous cell-free centrifugates and filtrates, report of, 754-757
- in subintimal venous lymphatics of spleen, report on, 882-889
- lipid-containing, in liposarcoma, correlative cytochemical and electron microscopic study of, 783-784
- mononuclear, in infectious mononucleosis and in lymphogenous leukemia, report on, 875-880
- mucous, in mucoepidermoid tumors of the major and minor salivary glands, histological features of, 803-808, 809, 816-817
- multivacuolated, in liposarcoma, correlative cytochemical and electron microscopic study of, 777, 779-783
- myeloid, as large benign cells in circulating blood, significance of in identification of cancer cells, report on, 972-977
- noncancerous, in cerebrospinal fluid, cytological examination of, 591-597
- pituitary, counts of, in men with carcinoma of lung, levels of, 113, 114, 115
- plasmoid, as large benign cells in circulating blood, significance of in identification of cancer cells, report on, 972-977
- round, from bizarre smooth muscle tumors of stomach, diagnostic significance of, 402-409
- as differentiated from leiomyoblasts, 402, 403
- Schwann, derivation of so-called granular cell myoblastoma from, electron microscopic and histochemical study of, 936-954
- spindle-shaped, diagnostic significance of, in diffuse pleural mesothelioma, report of, 692-695
- stellate and round mesenchymal, in liposarcoma, correlative cytochemical and electron microscopic study of, 782-783
- tumor, effect of local pretreatment of experimental animal wounds prior to contamination with, 611-616
- dissemination of, effect of chemotherapeutic prophylaxis on, 790-796
- histochemical identification of megakaryocytes from peripheral blood examined for, 259-262
- in postoperative wound drainage, study of, 221-226
- types of, in liposarcoma, correlative cytochemical and electron microscopic study of, 779-789
- Cerebellum, arachnoidal sarcoma of, report of, 705-716
- Cervix. See also Uterus
- cancer of, in India, study of ABO blood groups in relationship to, 40, 41
- incidence of in Singapore, report on, 354-363
- carcinoma of, lymphangiadenography (lymphography) in study of, 769-775
- cells of, in mouse, water content of during carcinogenesis, 1176-1180
- uterine, advanced cancer of, combined hormonal and irradiation therapy of, 437-443
- cancer of, blood vessel invasion in, report on, 1269-1274
- Ceylon, incidence of male and female genital tract cancer in, discussion, 357-358
- Change(s), proliferative, of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1102-1112, 1114, 1115
- as result of rubbing manipulation, 1102-1103, 1105-1108, 1112-1113, 1114, 1115
- Chemical(s). See also specific names
- Chemistry, of sulfur mustards containing enzyme-susceptible amide bonds, report on, 1041-1072
- Chemotherapy. See also specific names of agents
- agents used in continuous hepatic
- Chemotherapy**—(Contd.)
- artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488
- and irradiation, for inoperable bronchogenic carcinoma, report on, 1209-1217
- as prophylactic measure in implantation metastases in mice, report on, 790-796
- by intralymphatic infusion, results of, 955-957
- for advanced breast cancer, effect of oral 11 β -hydroxy-17 α -methyltestosterone compared with fluoxymesterone, report of, 726-732
- for human cancer, further investigation of relation between clinical and tissue response to, report on, 284-293
- regional perfusion as, report on, 828-845
- for patients with chronic lymphatic leukemia and infections, results of, 308-329
- of cancer, use of enzyme-alterable alkylating agents in, report on, 1041-1072
- with cyclophosphamide, clinical appraisal of, 1076-1080
- of disseminated cancer, using vincalutoblastine, cytological and clinical observations on, 294-306
- of neural tumors in children, effect of on urinary excretion of 3-methoxy-4-hydroxymandelic acid, 978-986
- prophylactic, possible role in destroying cancer cells in circulating blood after operation or manipulation, report of, 238-239
- topical, in experimentally implanted cancer, further studies on, 584-590
- use of androstan-3,11-dione-17 β -hydroxy-17-methyl in treatment of advanced breast cancer, report on, 330-333
- use of corticosteroids for malignant lymphomas, report on, 338-345
- with cyclophosphamide, for cancer in children, report of, 42-49
- Children, benign mesenchymomas in, report of, 598-605
- cancer in, treatment with cyclophosphamide, results of, 42-49
- fibrosarcomas in, report on, 1028-1040
- smooth muscle tumors in, report on, 958-971
- with neuroblastoma, urinary excretion of 3-methoxy-4-hydroxymandelic acid in, 978-986
- China, incidence of male and female genital tract cancer in, discussion of, 358-359
- Chlorambucil (Leukeran), as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293
- 2-Chloroethylthioacetate acid (S-6), as enzyme-alterable alkylating agent used in cancer chemotherapy, evaluation of, 1045-1055, 1056
- Chlorpromazine, and sodium pentothal, as sedatives prior to nitrogen mustard therapy, in rat, effect of, 1170-1174
- as sedative prior to nitrogen mustard therapy, in rat, effect of, 1170-1174
- CHOMET, BERNHARD, *jt. su.*, 1117-1118
- Chondrosarcoma(s), mesenchymal, as a new entity, further observations on, 410-417
- Choristoma(s), as benign lymphoid masses, analysis of, 197-214
- CHRISTOPHERSON, WILLIAM M., *jt. su.*, 1176-1180
- Chromatography, in determining urinary excretion of 3-methoxy-4-hydroxymandelic acid in children with neural tumors, report on, 978-986
- in identification of polynuclear aromatic hydrocarbons in automobile exhaust "tar," report of, 94-102
- CHU, FLORENCE C. H., *jt. su.*, 179-183
- Cigarette(s). See also Smoking and Tobacco
- smoke condensate, effect on bronchial

- Cigarette(s)—(Contd.)
 mucosa, of dogs, 1100-1116
 potency of, as compared to gasoline engine exhaust condensate, in carcinogenesis, report of, 103-108
 use of, by urban and rural populations in United States, incidence of lung cancer and, 79-92
 CIPRUT, SOLOMON, *jt. au.*, 726-732
 Cirrhosis. *See also* Hepatectomy, Liver, and Metastasis(es)
 histological criteria used in classification of, 1005
 relationship between metastases from extrahepatic tumors and, 1004-1008
 CLAGETT, O. THERON, *jt. au.*, 522-538
 CLAPP, PAUL, *jt. au.*, 472-488
 CLARKSON, RAYARD; YOUNG, CHARLES; DIERCKE, WILFRIED; KUEHN, PAUL; KIM, MATTHEW; BERRETT, ARNOLD; CLAPP, PAUL, and LAWRENCE, WALTER, JR.: Effects of continuous hepatic artery infusion of antimetabolites on primary and metastatic cancer of the liver, 472-488
 Classification, cytological, of oral cancer, 1120, 1123
 histological, for malignant lymphomas treated by corticosteroids, report on, 340
 of thymic tumor, 1226-1248
 epithelial, granulomatous, 1236-1237
 predominantly, 1229, 1233-1234
 granulomatous, 1237-1243
 lymphoid, predominantly, 1228, 1229, 1230
 "rosette" or "pseudorosette," predominantly, 1229, 1234, 1236
 seminomatous, 1243-1246
 spindle cell, predominantly, 1228-1229, 1230-1233
 of thyroid cancer, 1132, 1136
 of bronchogenic carcinoma, 1210, 1211
 of cancers of nasopharynx, report on, 895-920
 of oat cell lung cancer, criteria for, 759-768
 of uterine cervix carcinoma, 1269
 topographical, of epidermoid carcinoma of larynx, report on, 264, 270
 CLIFFTON, EUGENE E., and AGOSTINO, DOMENICO: Factors affecting the development of metastatic cancer. Effect of alterations in clotting mechanism, 276-283
 Clinical, examination, appearance of oral cancer lesions, report on, 1120, 1121-1122, 1124
 preliminary diagnosis, of oral lesions, reliability of, report on, 1122, 1123, 1124
 Clorpactin XCB, local pretreatment of experimental animal wounds prior to contamination with tumor cells, effect of, 611-616
 Clotting, effects of alterations in mechanism of, in development of metastatic cancer, experimental study of, 276-283
 COBB, JAWEL P., *jt. au.*, 284-293
 Coffee, intake of, and gastric carcinoma, report on, 1261-1263
 COHEN, DONALD M.; DAHLIN, DAVID C., and PUGH, DAVID G.: Fibrous dysplasia associated with adamantinoma of the long bones, 515-521
 COLE, W. H., *jt. au.*, 232-240
 COLLINS, VINCENT P.: Time of occurrence of pulmonary metastasis from carcinoma of colon and rectum, 387-395
 Colon. *See also* Anus and Rectum
 and rectum, carcinoma of, time of occurrence of pulmonary metastasis from, 387-395
 carcinoma of, glycolytic and oxidative enzymes and transaminases in patients with, 346-353
 polyps of, and cancer, ultrastructure of, with special reference to epithelial inclusion bodies of Leutenberger, report of, 160-170
 Complications, resulting from bronchogenic carcinoma, 1117, 1118
 Compound NSC 12165. *See* Fluoxymesterone
 Compound NSC 19605. *See* Androstan-3,11-dione-17 β -hydroxy, 17-methyl
 Concordance rates, for cancer in aging twins, comparative data on, 1012-1018
 Condensate, cigarette smoke, effect of on bronchial mucosa of dogs, 1100-1116
 Contamination, of experimental animal wounds with tumor cells, effect of local pretreatment prior to, 611-616
 "Conversion," of giant cell tumors of bone from benign to malignant, report of, 653-690
 CORBOVA, JUAN F.; TESLUK, HENRY, and KHUDYSON, KENNETH P.: Asbestosis and carcinoma of the lung, 1181-1187
 Coronary sclerosis, and thyroid disease, in men with lung cancer, report on, 112
 Corticosteroid(s), in treatment of malignant lymphomas, role of, 338-345
 Cortisone, administration of, and amputation, in experimental study, effect of on pulmonary metastases, report on, 227-231
 time of amputation as factor in, 228-231
 schedules of cortisone treatment in, 227, 228-231
 Country of origin, and thyroid cancer, report on, 1125, 1126, 1127, 1128, 1130-1131, 1132, 409
 Course, biological, of bizarre smooth muscle tumors of stomach, report on, 405
 COX, KENNETH R., *jt. au.*, 828-845
 CRAIG, JAMES W., *jt. au.*, 1188-1196
 Craniectomy, suboccipital, direct, as procedure in cases of arachnoid sarcoma of cerebellum, case of, 709
 CROSBY, W. H., *jt. au.*, 628-632
 CROWLEY, LAWRENCE G., and MACDONALD, IAN: Clinical trial of Delatutin in the treatment of advanced mammary carcinoma in postmenopausal women, 1218-1220
 CUNNINGHAM, M[ARGARET] E. G., *jt. au.*, 633-635, 636-640, 987-991
 Cure rates, for benign and malignant giant cell tumors of bone, report of, 667-690
 relation of anatomic site of tumor to, 669, 687
 relation of type of treatment to, 669-690
 for mucoepidermoid tumors of major and minor salivary glands, report on, 812-813, 816-817
 CURRIER, A. R., *jt. au.*, 1209-1217
 CURTIS, HELEN OLLENDORF; HILBERG, ALBERT W., and MACHACEK, GERALD F.: The site and histology of the cancer associated with malignant acanthosis nigricans, 364-382
 Cyclophosphamide, and 5-fluorouracil, and X ray, in treatment of inoperable bronchogenic carcinoma, 1210, 1213 and X ray, in treatment of inoperable bronchogenic carcinoma, report on, 1211, 1212, 1213, 1214, 1215, 1216
 in treatment of cancer in children, report of, 42-49
 therapy of cancer with, clinical appraisal of, 1076-1080
 Cystitis, toxic, after treatment with cyclophosphamide for cancer in children, incidence of, 47-49
 Cytochemistry and correlative electron microscopic study of liposarcoma, 776-789
 Cytology. *See also* Cell(s)
 and histopathology, of oral cancer, correlation of, 1119, 1120, 1122-1123, 1124
 exfoliative, for oral lesions, evaluation of, 1124
 of oral cancer, early, interim report on, 1119-1124
 use of in diagnosis of diffuse pleural mesothelioma, report of, 691-704
 differentiation between proliferating mesothelium, metastatic adenocarcinoma, and, 691-695
 in examination of cerebrospinal fluid from patients suspected of having intracranial tumors, use of, 591-597
 in oat cell lung cancer, report on, 765
 method for detection of cancer cells in blood, report on, 171-175
 vaginal, in study of effects of combined hormonal and irradiation therapy of advanced cancer of uterine cervix, report on, 437-443
 Cytotoxic agent(s), use of, in study of relation of clinical and tissue response to chemotherapeutic action on human cancer, report on, 284-293
 Cytoscan. *See* Cyclophosphamide
 DAHLIN, DAVID C., and HENDERSON, EDWARD D.: Mesenchymal chondrosarcoma. Further observations on a new entity, 410-417
jt. au., 515-521
 DANGERFIELD, H. G., *jt. au.*, 628-632
 Death, certificates of, diagnosis of cancer recorded on, accuracy of, 5-9
 rates, for lung cancer, role of air pollution in, epidemiological report of, 79-92
 DeCOSTE, JEROME J.; BERG, JOHN W.; FRACCHIA, ALFRED A., and FARROW, JOSEPH H.: Primary lymphosarcoma of the breast. A review of 14 cases, 1264-1268
jt. au., 418-424
 Delatutin. *See* 17 α -Hydroxyprogesterone caproate
 Delay, and survival, in thyroid cancer, 1131, 1136
 Dentures, as etiological factor in cancer of mouth, pharynx, and larynx, report of, 249-258
 Dermatofibrosarcoma protuberans, report of, 717-725
 Dermatitis(es), associated with malignant acanthosis nigricans, report on, 364-382
 Detection, of oral cancer, early, interim report on, 1119-1124
 method for, 1119-1121, 1124
 Dextrose-insulin tolerance test, in carcinomatosis, results for, 22, 23
 Diabetes, results of carbohydrate metabolism tests in cases of carcinomatosis in relationship to, 18-27
 Diagnosis(es), differential, between arachnoid sarcoma of cerebellum and medulloblastoma, report on, 713-716
 of fibrosarcomas and fibromatoses in infants and children, discussion of, 1028-1040
 of papillary tumors of breast, report on, 444-455
 of primary and secondary thyroid cancer, report on, 563, 564
 of benign or malignant acanthosis nigricans, factors in, 375-376, 379
 of cancer cells, significance of large benign cells in circulating blood and, 972-977
 of cancer, patient delay in seeking, report of, 50-56
 recorded on death certificates, accuracy of, 5-9
 of female genital cancer, use of lymphangiography (lymphography) in, 769-775
 preliminary clinical, of oral lesions, reliability of, report on, 1122, 1123, 1124
 suggested for bizarre smooth muscle tumors of stomach, report on, 400-401
 Diamine oxidase (histaminase), in endometrial adenocarcinoma, increased levels of, 271-275
 DIAZ PERCHES, R., *jt. au.*, 437-443
 DIERCKE, WILFRIED, *jt. au.*, 472-488
 Diet, high fat, effect of, on development of metastatic cancer, experimental study of, 276-283
 Digestive tract. *See specific names of organs*
 Dihydro E-73, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
 use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293
 2,3-Dimethyl dihydrotestosterone, in combined hormonal and irradiation therapy for advanced cancer of uterine cervix, results of, 437-443
 Diplopia, as symptom of arachnoid sarcoma of cerebellum, incidence of, 707
 Disease(s). *See also specific names*
 chronic, results of carbohydrate metabolism tests in cases of carcinomatosis in relationship to, 18-27

Disease(s)—(Contd.)

- cystic, proliferative, and development of carcinoma of female breast, 4-quadrant study of mastectomy specimens in analysis of, 10-17
- gynecological, determination of histaminolytic power of plasma in, 271-275
- lung, chronic, relationship of to lung cancer, report on, 111, 114-117
- neoplastic, disseminated, hyperuricemia associated with, 122-129
- of thyroid, previous, and thyroid cancer, report on, 1131-1132
- Disorders, metabolic, extrapulmonary, 1118
- Dissection, block, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- homolateral and prophylactic contralateral, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- prophylactic block, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- Dissemination, of cancer, by aspiration biopsy, lack of, report on, 826-827
- of tumor cells, effect of chemotherapeutic prophylaxis on, 790-796
- Dizziness, as symptom of arachnoid sarcoma of cerebellum, incidence of, 707
- Dog(s), adult, mongrel, used in experimental study of intralymphatic injection of radioactive gold, report on, 623-627
- Au¹⁹⁸ in lymphatic vessels draining intestine of, 623
- Dosage, of 8-azaguanine, intra-arterial infusions of, for localized inoperable neoplasm, 1157-1158
- of bovine wart vaccine, in treatment of laryngeal papilloma, 1222
- of cyclophosphamide used in therapy of cancer, report on, 1076-1080
- of cyclophosphamide, with radiotherapy, for treatment of inoperable bronchogenic carcinoma, 1212
- of 5-fluorouracil, with radiotherapy, for treatment of inoperable bronchogenic carcinoma, 1212
- of 17 α -hydroxyprogesterone caproate, for advanced breast cancer, report on, 1218, 1219
- of 5-iododeoxyuridine, with radiotherapy, for treatment of inoperable bronchogenic carcinoma, 1212
- of vincetuberculin, used as therapy for solid disseminated human cancer, report on, 295
- of X ray, for treatment of inoperable bronchogenic carcinoma, 1211-1212, 1214, 1215
- with chemotherapy, for treatment of inoperable bronchogenic carcinoma, 1211-1212, 1214, 1215, 1216
- range of, in regional perfusion as chemotherapeutic method for human cancer, report on, 829-835
- Downing, J. E.; CHRISTOPHERSON, WILLIAM M., and BROGHAMER, W. L., JR.: Nuclear water content during carcinogenesis, 1176-1180
- DURAZO, F., *jt. au.*, 437-443
- Dye(s), patent blue V, used in study of female genital cancer by lymphangiography, report of, 769-770
- identification of lymphatic vessels by, 769-770
- Dysplasia(s), fibrous, associated with adamantinoma of long bones, report on, 515-521
- Ear, carcinoma of, radiation therapy for, 57-65
- response of underlying cartilage in relationship to, 57-65
- EDERER, FRED, and MERSHMEIER, WALTER L.: Sex differences in the survival of lung cancer patients, 425-432
- EDWARDS, DAVID L., *jt. au.*, 263-270
- EEG. See Electroencephalogram(s)
- Effusion(s), pleural, in cases of diffuse mesothelioma of pleura, exfoliative cytology of, 691-704
- EISENSTEIN, REUBEN, *jt. au.*, 338-345
- Electrocoagulation, in treatment of upper respiratory tract solitary extramedullary myeloma, 1151, 1154
- Electroencephalogram(s), and autopsy correlation of, 1138
- in detecting metastasis to brain, report on, 1138-1141
- Eligibility concept, in epidemiological investigation of hazards of doses of radiation, report on, 493-497
- ELLINGSON, ROBERT J., and LUNDY, BURDETTE W.: Electroencephalograms of patients suspected of having metastatic lesions of the brain, 1138-1141
- Embryology, in relation to primary meningeal sarcomatosis, review of, 1197-1198
- Encephalomyelitis, Venezuelan equine, virus of, as antineoplastic agent in man, report on, 628-632
- Endocrine(s). See also specific names
- in male lung carcinoma, changes in, 109-117
- in women with breast cancer, effect of 16 α -estradiol dipropionate therapy on, 1073-1075
- Endometrium, cancer of, increased histaminolytic power of plasma in, 271-275
- Environment. See also Epidemiology and genetics, in development of leukemia in families, report on, 544
- as etiological factor in cancer of mouth, pharynx, and larynx, report of, 246-258
- as factor, in development of cancer in Lebanon and Near East, epidemiological report of, 72
- in incidence of male and female genital tract cancer in Singapore, report on, 354-363
- in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 581-583
- Enzyme(s). See also specific names
- activity of, in human neoplasms, evidence suggesting deficiency of succinoxidase carrier in, 184-188
- capable of altering alkylating agents, in relationship to cancer chemotherapy, report on, 1041-1072
- glycolytic, in patients with cancer, levels of, 927-930, 931-935
- and oxidative, in patients with gastrointestinal carcinoma, study of, 346-353
- histaminase, in endometrial adenocarcinoma, increased values of, 271-275
- hydrolytic, in South African Bantu with malignant hepatoma, histochemical study of, 855-864
- in granulomatous and primary neoplastic conditions of lymphoid tissue, histochemical study of, 139-152
- in normal and hyperplastic lymph nodes, investigation of, 130-138
- oxidative, in patients with cancer, levels of, 927-930, 931-935
- serum, in patients with gastrointestinal carcinoma, study of, 346-353
- in patients with malignant tumors, effect of irradiation and operation on levels of, 818-825
- levels of, in patients with cancer, report on, 927-930, 931-935
- Epidemiology. See also Statistics and Environment
- analysis of carcinogenesis by air pollution, 79-92
- etiological factors in cancer of mouth, pharynx, and larynx, 246-258
- familial influences in cancer of thyroid, report on, 241-245
- incidence, of cancer in aging twins, comparative data on, 1009-1018
- of cancer in Lebanon and Near East, 66-78
- of male and female genital tract cancer in Singapore, report on, 354-363
- influence of previous hysterectomy on development of breast cancer, 28-38
- isolation and identification of polynuclear aromatic hydrocarbons from gasoline engine exhaust condensate, report of, 93-102
- method for studying hazards of doses of radiation, 489-501
- of oat cell lung cancer, report on, 762
- Epidemiology—(Contd.)
- of thyroid cancer, in Israel, report on, 1125-1128
- age, 1125, 1126, 1127, 1128
- ethnic group, 1125, 1126, 1127, 1128
- geography, 1125, 1126, 1127, 1128
- sex, 1125, 1126, 1127, 1128
- morbidity, 1125, 1127, 1128
- mortality, 1125, 1126, 1127, 1128
- on the "irritation-cancer of Egypt," as reported by Alexander Robert Ferguson, discussion of, 215-216
- sex as factor in survival rates for patients with lung cancer, report on, 425-432
- study of incidence of oral and pharyngeal carcinomas in State of Bombay, 578-583
- Epithelium(s), bronchial, of infants and children, changes in, study of, 118-121
- of adenomatous polyps of stomach, atypically found in, 458-466
- oral, site of origin of mucocysticoid tumors of major and minor salivary glands, discussion of, 813
- ERIKSSON, OLOF: Method for cytological detection of cancer cells in blood, 171-175
- Erythropoietic activity, after therapy with 2 α -methyl dihydrotestosterone propionate for breast cancer, incidence increase in, 177
- ESCHER, GEORGE, *jt. au.*, 726-732
- Escherichia coli, infection with, in mice, effect of chemotherapeutic prophylaxis of implantation metastases and, 790-796
- Esophagus, carcinoma of, intraepithelial carcinoma concomitant with, report of, 733-740
- glycolytic and oxidative enzymes and transaminases in patients with carcinoma of, 927-930
- Esterase, nonspecific, in malignant hepatoma in South African Bantu, activity levels of, 858-864
- 16 α -Estradiol propionate, therapy with, in women with breast cancer, antitumor, endocrine, and metabolic effects of, 1073-1075
- 1,3,5(10)-Estratriene-3,16 α -dihydroxy dipropionate (NSC 24550). See 16 α -Estradiol propionate
- Estrogen(s). See also specific names
- 16 α -estradiol propionate as, use in treatment of metastatic breast cancer, report of, 1073-1075
- hexestrol as, subcutaneous implantation of, in treatment of breast cancer metastases, effectiveness of, 189-196
- massive administration of, in premenopausal women with breast cancer, effect of, 641-648
- Ethnology, and thyroid cancer, report on, 1125, 1126, 1127, 1128, 1130-1131, 1132, 1136
- Etiology, of bizarre smooth muscle tumors of stomach, report on, 403
- of cancer of thyroid, familial influence in, 241-245
- of carcinoma of esophagus, alcohol as possible factor in, 733-740
- of fibrosarcomas in infants and children, report on, 1028-1040
- of sarcomatous and inflammatory pseudotumors of lung, considerations of, 531-538
- viral, of spontaneous leukemia in mice, report on, 750-758
- Europe, and thyroid cancer, Jews from with, 1130-1131, 1136
- relationship of, report on, 1125, 1126, 1127, 1128
- Evaluation, of cytology, for oral lesions, 1124
- EVANS, JOSEPH P., *jt. au.*, 153-159
- Excision, of lymph nodes, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- of neural tumors in children, effect of on urinary excretion of 3-methoxy-4-hydroxymandellic acid, 978-986
- of smooth muscle tumors in children, survival after, 959, 960, 962-970
- simple, as treatment for fasciitis, report on, 994-995

- Excretion, urinary, of 2a-methyl-5a-dihydro-testolactone in patients with advanced breast cancer, report on, 987-991
- comparison with testosterone propionate, 987-990
- of 3-methoxy-4-hydroxymandelic acid, in children with neuroblastoma, 978-985
- Exenteration, for cervical cancer, 1270, 1272, 1274
- Exfoliation, cytological, of oral cancer, early, interim report on, 1119-1124
- Experiment, on bronchial mucosa of dogs, effect of cigarette smoke condensate, 1100-1116
- on nuclear water content during carcinogenesis, report on, 1176-1180
- prior sedation, effect on nitrogen mustard effect, in rat, 1170-1175
- FAHIMI, H. DARIUSH, *jt. au.*, 1004-1008
- FALEK, ARTHUR, *jt. au.*, 1009-1018
- Family, history, of uniovular twins with acute leukemia, report on, 542
- FARROW, JOSEPH, *jt. au.*, 418-424, 1264-1268
- Fasciitis, report on benignity of, 992-1003
- 5-FCR. See 5-Fluoro-2'-deoxycytidine
- Federation of Malaya, incidence of male and female genital tract cancer in discussion of, 359
- FELDMAN, ELAINE B.; SILVERSTEIN, JOSEPH N.; NAYAK, RAMNATH V., and CARTER, ANNE C.: Antitumor, endocrine, and metabolic effects of 16a-estradiol dipropionate in women with breast cancer, 1073-1075
- Female Genital Tract. See specific names of organs
- Femur, distal, as site of giant cell tumors of bone, report on, 664-690
- FERGUSON, JAMES H., *jt. au.*, 769-775
- Fibrinolysin, effect of injections of, on development of metastatic cancer, experimental study of, 276-283
- Fibromatosis (es), and fibrosarcomas, in infants and children, differential diagnosis of, 1028-1040
- Fibrosarcoma(s), as type of malignant giant cell tumor of bone, clinicopathological analysis of natural history of, 653-690
- brain, postirradiation, report on, 617-622
- in infants and children, report on, 1028-1040
- radiation therapy in palliative management of, results of, 181, 182
- Fibrosis(es), as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 579-580
- FISHER, EDWIN R., and SHARKEY, DENNIS A.: The ultrastructure of colonic polyps and cancer with special reference to the epithelial inclusion bodies of Leutenberger, 160-170
- and WECHSLER, HARRY: Granular cell myoblastoma—a misnomer. Electron microscopic and histochemical evidence concerning its Schwann cell derivation and nature (granular cell schwannoma), 936-954
- FLETCHER, GILBERT H., and JESSE, RICHARD H., Jr.: The contribution of super-voltage roentgenotherapy to the integration of radiation and surgery in head and neck squamous cell carcinomas, 566-577
- Fluid(s), cerebrospinal, cytological examination of, 591-597
- pleural, in cases of diffuse mesothelioma of pleura, exfoliative cytology of, 691-704
- Fluorescence, acridine orange, use of in histochemical identification of megakaryocytes from peripheral blood examined for tumor cells, report on, 259-262
- 5-Fluoro-2'-deoxycytidine, used in continuous hepatic artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488
- 5-Fluoro-2'-deoxyuridine, used in continuous hepatic artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488
- 5-Fluorouracil, and cyclophosphamide, and X ray, in treatment of inoperable bronchogenic carcinoma, 1210, 1213
- 5-Fluorouracil—(Contd.)
- and X ray, in treatment of inoperable bronchogenic carcinoma, report on, 1209-1217
- as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293
- used in continuous hepatic artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488
- Fluoxymesterone (compound NSC 12165), use of in treatment of advanced breast cancer, report on, 330-333
- use of, in treatment of advanced breast cancer, comparison of with effect of oral 11b-hydroxy-17a-methyltestosterone, 726-732
- Follicle-stimulating hormone(s), determinations of, in patients receiving combined hormone and irradiation therapy for advanced cancer of uterine cervix, report on, 439-443
- Follow-up, of patients treated for adenomatous polyps of stomach, report on, 461-467
- Foot, bones of, hemangioendothelioma of, 846, 847
- FOOTE, FRANK W., JR., *jt. au.*, 653-690, 992-1003
- Forearm, as common site for fasciitis, report on, 993, 994, 995
- Formosa, incidence of nasopharyngeal cancers in, histological classification of, 895-920
- FRACCINIA, ALFRED A., *jt. au.*, 418-424, 1264-1268
- FRANCIA, KENNETH C., *jt. au.*, 653-690
- FRANK, W., *jt. au.*, 628-632
- FRAZELL, EDGAR L., and LUCAS, JOHN C., JR.: Cancer of the tongue. Report of the management of 1,554 patients, 1085-1099
- FREIMAN, DAVID G., *jt. au.*, 130-138, 139-152
- FRIEDEL, GILBERT H.; CAREY, ROBERT J., and ROSEN, HERMAN: Familial thyroid cancer, 241-245
- and PARSONS, LANGDON: Blood vessel invasion in cancer of the cervix, 1269-1274
- FRH. See Follicle-stimulating hormone(s)
- 5-Fu. See 5-Fluorouracil
- Function, of thyroid, in thyroid cancer patients, report on, 1131
- Fundus, changes in, in patients with arachnoid sarcoma of cerebellum, report on, 707-708
- GABY, SAMUEL D., *jt. au.*, 1056-1061
- Galactose, radioactive, test for tolerance of, 1190, 1192
- GALL, EDWARD A., *jt. au.*, 130-138, 139-152
- GARDNER, BERNARD; THOMAS, ARTHUR N., and GORDAN, GILBERT S.: Antitumor efficacy of prednisone and sodium liothyronine in advanced breast cancer, 334-337
- Gasoline, automobile, exhaust fumes from, role of in carcinogenesis, report of, 93-102
- identification of isolated polynuclear aromatic hydrocarbons in, 97-98
- isolation of crystalline polynuclear hydrocarbons in, 98
- quantitative determination of benz[a]anthracene and benzo[a]pyrene in, 98-99
- role of in development of lung cancer, epidemiological report of, 83-85
- engine exhaust condensate, role of in carcinogenesis, report of, 103-108
- Gastrectomy, as treatment for adenocarcinoma of gastric polyp, results of, 468-471
- partial, as treatment for bizarre smooth muscle tumors of stomach, results of, 406-409
- subtotal, as treatment for bizarre smooth muscle tumors of stomach, results of, 406-409
- Gastric carcinoma, and caffeine intake, report on, 1261-1263
- Gastrointestinal tract. See also specific names of organs
- carcinoma of, glycolytic and oxidative enzymes and transaminases in, study of, 346-353
- Genetics, as factor in human leukemia, report on, 539-545
- incidence of cancer in aging twins, comparative data on, 1009-1018
- Genital(s). See also specific names of organs
- female, cancer of, lymphangiadenography (lymphography) in study of, 769-775
- organs, and breasts female, cancer of, in India, study of ABO blood groups in relationship to, 39-41
- tract, cancer of, in men and women in Singapore, report on, 354-363
- Genitourinary tract. See also specific names of organs
- Geography, and thyroid cancer, report on, 1125, 1126, 1127, 1128
- as etiological factor in cancer of mouth, pharynx, and larynx, report of, 246-247, 251-252
- as factor in incidence of male and female genital tract cancer, report on, 354-363
- in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 578, 583
- GERE, J. BREWSTER; ABEL, ARTHUR R., and SHIELDS, DONALD F.: Observations on the bronchial epithelium in infants and children, 118-121
- Geriatrics, comparative data on cancer in aging twins, 1009-1018
- Gland(s). See also specific names
- parotid, malignant lymphoepithelial lesion with carcinomatous component apparently arising in, 606-610
- thyroid, metastatic carcinoma in, pathological and clinical findings for, 557-565
- Glioblastoma multiforme, palliation of, by regional perfusion of chemotherapeutic agents, report on, 830-845
- Globulin, gamma, levels of, in patients with chronic lymphatic leukemia, relationship of recurrent infections and, 308-329
- Glucagon response, test for, 1190-1191
- Glucogen tolerance test, in carcinomatosis, results for, 22
- Glucose, intravenous tolerance test for, in carcinomatosis, results of, 21
- oral tolerance test for, in carcinomatosis, decreased levels found in, 18-27
- 6-phosphate, measurement in tumor, 1192, 1193
- radioactive, measurement of disappearance of, 1190, 1191
- tolerance, tests for, levels of, in carcinomatosis, significance of, 18-27
- oral, 1190
- Glutamic oxalacetic transaminase, in malignant tumor tissue, effect of irradiation and operation on levels of, 823-825
- in patients with cancer, levels of, 927-930, 931-935
- in patients with gastrointestinal carcinoma, study of, 346-353
- Glutamic pyruvic transaminase, in patients with cancer, levels of, 927-930, 931-935
- in patients with gastrointestinal carcinoma, study of, 346-353
- Glutathione reductase, in patients with cancer, levels of, 927-930, 931-935
- Glycolipid, in liposarcoma, demonstration and significance of, 784-789
- Goiter(s), thyroid, and associated thyroid cancer, familial influences in, 241-245
- association between other diseases and, 245
- GOLDBERG, GIL M.: A study of malignant lymphomas and leukemias. V. Lymphogenous leukemia and infectious mononucleosis: the lymphatics in benign and malignant lymphoproliferative diseases, 869-881
- A study of malignant lymphomas and leukemias. VI. Lymph stasis versus lymphogenous leukemia of the spleen, 882-889
- GOLDSMAN, LEON, *jt. au.*, 176-178
- GOLDNER, MARTIN D., *jt. au.*, 18-27

- GOLDSTEIN, AVRAM, and WARREN, RICHARD: Lack of relationship between gastric carcinoma and intake of beverages containing caffeine, 1261-1263
- Golgi apparatus, in liposarcoma, correlative cytochemical and electron microscopic study of, 780-783
- GOLLIN, F. F.; ANSFIELD, F. J.; CURRERI, A. R.; HEIDELBERGER, C., and VERMUND, H.: Combined chemotherapy and irradiation in inoperable bronchogenic carcinoma, 1209-1217
- GOLOMB, FREDERICK M.; POSTEL, ALLEN H.; HALL, ALDEN B.; GUMPERT, STEPHEN L.; COX, KENNETH R., and WRIGHT, JANE C.: Chemotherapy of human cancer by regional perfusion. Report of 52 perfusions, 828-845
jt. su., 284-293
- GOODMAN, LOUIS E.; KRAMER, STANLEY P.; GARY, SAMUEL D.; BAKAL, DANIEL; SOLOMON, ROBERT D.; WILLIAMSON, CHARLES E.; MILLER, JACOB I.; SASS, SAMUEL; WITTEN, BENJAMIN, and SELIGMAN, ARNOLD, M.: Enzyme-alterable alkylating agents. II. Clinical evaluation of *N,N*-bis(2-chloroethylthio)acetyl]-1,2-ethylene diamine (S-46), 1056-1061
jt. su., 1041-1055, 1062-1072
- GORDAN, GILBERT S., *jt. su.*, 176-178, 334-337
- GORDON, JOHN S., *jt. su.*, 606-610
- GOT, SEE Glutamic oxalacetic transaminase
- Gout, and hyperuricemia in disseminated neoplastic disease, association between, 128-129
- GPT, SEE Glutamic pyruvic transaminase
- Gr. SEE Glutathione reductase
- Granulocyte(s), circulating, levels of, in patients with chronic lymphatic leukemia, relationship of recurrent infections and, 309
- GREENLAW, ROBERT H., *jt. su.*, 623-627
- GREGG, H. GILMORE, *jt. su.*, 1076-1080
- GREIDER, M. H., *jt. su.*, 776-789
- Growth, of metastasis from carcinoma of colon and rectum, rate of, 388-395
- of mouse melanoma, effect of pregnancy on, 797-800
- pattern of, in oat cell lung cancer, report of, 761, 767
- peripheral, in epidermoid carcinoma of larynx, report on, 264-265, 269
- rate of, in cases of fasciitis, report on, 993-994, 995
- tumor, role of, in patient delay after time of first symptoms, report of, 50, 53-55
- GUERRERO, HUMBERTO G., *jt. su.*, 1062-1072
- GUMPERT, STEPHEN L., *jt. su.*, 284-293, 828-845
- GUTTMANN, RUTH J.: Survival and results after 2-million volt irradiation in the treatment of primary operable carcinoma of the breast with proved positive internal mammary and/or highest axillary nodes, 383-386
- Gynecology, lymphangiadenography (lymphography) in study of carcinoma of female genitals, report on, 769-775
- HALL, ALDEN B., *jt. su.*, 828-845
- HALL, THOMAS C.; KRANTZ, MELVIN J.; LLOYD, JOHN B.; PATTERSON, W. BRADFORD; ISHIIHARA, ALBERT; POTER, K. GALE; LOVINA, TELA O., and MULLEN, JOSE M.: Treatment of localized inoperable neoplasms with intra-arterial infusions of 8-azaguanine, 1156-1164
- Hamartoma(s), as benign lymphoid masses, analysis of, 197-214
- HAMMOND, E. CUYLER, *jt. su.*, 79-92
- HAMPEL, H.: Benign and malignant oncocytoma, 1019-1027
- HARRISON, EDGAR G., *jt. su.*, 522-538, 1142-1155
- HARTMANN, WILLIAM H., and STEWART, FRED W.: Hemangioendothelioma of bone. Unusual tumor characterized by indolent course, 846-854
- Head, and neck, epidermoid carcinoma of, clinicopathological study of, 741-749
- Head, and neck—(Contd.)
- squamous cell carcinomas, of, role of supravoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
- glycolytic and oxidative enzymes and transaminases in patients with carcinoma of, 927-930
- Healing, of wounds, in patients operated upon for squamous cell carcinomas of head and neck, effect of recent radiation on, 568
- Headache, as symptom of arachnoidal sarcoma of cerebellum, incidence of, 706-707
- HECHT, ARTHUR, *jt. su.*, 18-27
- HEIDELBERGER, C., *jt. su.*, 1209-1217
- HEIMANN, RUDOLF, *jt. su.*, 1004-1008
- HELWIG, ELSON B., *jt. su.*, 717-725
- Hemangioendothelioma(s), of bone, multifocal origin versus metastasis in cases of, 847-849
- Hemithyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- Hemosiderin, deposition of, in cases of hemangioendothelioma of bone, 848
- HENDERSON, EDWARD D., *jt. su.*, 410-417
- Heparin, effect of injections of, on development of metastatic cancer, experimental study of, 276-283
- Hepatoma(s), as instigator of hypoglycemia, report on, 1188-1194
- malignant, in South African Bantu, histochemical study of glycolytic enzymes in cases of, 855-864
- Hepatectomy, partial, in rat, liver regeneration after injection of serum from patients with cancer of pelvic organs in, study of mitotic-stimulating effect from, 396-399
- Heredity, as etiological factor in cancer of mouth, pharynx, and larynx, report of, 249
- in human leukemia, 539-545
- in thyroid cancer, 241-245
- lack of associated thyroid goiter in, 241-245
- incidence of cancer in aging twins, comparative data on, 1009-1018
- HERROLD, K. McD., *jt. su.*, 741-749
- Hexacetyl (p,p'-(1,2-diethylethylene)diphenol), subcutaneous implantation of, in treatment of breast cancer metastases, effectiveness of, 189-196
- 5-HIAA. SEE 5-Hydroxyindolacetic acid
- HIGGINSON, JOHN: Patient delay with reference to stage of cancer, 50-56
- HILKEG, ALBERT W., *jt. su.*, 364-382
- HILDERMAN, W. C.; GORDON, JOHN S.; LARCHE, H. L.; JR., and CARROLL, CHARLES F., JR.: Malignant lympho-epithelial lesion with carcinomatous component apparently arising in parotid gland. A malignant counterpart of benign lymphoepithelial lesion? 606-610
- HIRAYAMA, T., and WYNDER, ERNEST L.: A study of the epidemiology of cancer of the breast. II. The influence of hysterectomy, 28-38
- HIRSCH, T., *jt. su.*, 1100-1116
- Histaminase (diamine oxidase), in endometrial adenocarcinoma, increased levels of, 271-275
- Histiocyte(s), in normal and neoplastic lymph nodes, investigation of, 133
- Histochemistry, in cases of embryonal carcinoma of ovary, report of, 551-553
- in study of so-called granular cell myoblastoma, report of, 936-954
- Histogenesis, of dermatofibrosarcoma protuberans, report of, 721-724
- of nasopharyngeal carcinoma, discussion of, 909-914
- Histology, classification, of thyroid cancer, 1132, 1136
- of bronchogenic carcinoma, 1210, 1211
- of mammary lymphosarcoma, 1266
- of mesenchymal chondrosarcomas, report on, 410-417
- of nasopharyngeal cancers, and 5-year survival rates, correlation of, 922, 925
- of oat cell lung cancer, report of, 760-761
- of primary meningeal sarcoma, report on, 1200, 1203, 1205-1207
- of thymic tumors, 1226-1248
- Histopathology, and cytology, of oral cancer, correlation of, 1119, 1120, 1122-1123, 1124
- Histopathology—(Contd.)
- of cancer of tongue, report on, 1087-1088, 1090
- of lung cancer, associated with ulcer, gastric and duodenal, 1117
- HN2. SEE Nitrogen mustard
- HOCH-LIGETI, CORNELIA: Effect of irradiation and operation on serum lactate dehydrogenase and glutamic oxalacetic transaminase in patients with malignant tumors, 818-825
- HOCHMAN, A., *jt. su.*, 1130-1137
- Hodgkin's disease, and thymic tumors, 1224, 1237-1243, 1255, 1256, 1259
- HOFFMANN, DIETRICH, and WYNDER, ERNEST L.: A study of air pollution carcinogenesis. II. The isolation and identification of polynuclear aromatic hydrocarbons from gasoline engine exhaust condensate, 93-102
- jt. su.*, 103-108
- Hormone(s). SEE also specific names of Hormone(s)
- adrenal, and ulceration, 1118
- adrenocorticotrophic, treatment of patients with chronic lymphatic leukemia and infections by, 310-329
- antithyroid, in treatment of thyroid cancer, report on, 1131
- as host factor in development of breast carcinoma, 4-quadrant study of surgical specimens in relationship to, 11-15
- as possible factor affecting growth of tumors in pregnant animals, report on, 798-800
- combined with irradiation for therapy of cancer of uterine cervix, report of, 437-443
- cortisone as, and amputation, in experimental study, effect of on pulmonary metastases, report on, 227-231
- 16a-estradiol dipropionate as, in women with breast cancer, anti-tumor, endocrine, and metabolic effects of, 1073-1075
- estrogen, massive administration of, in premenopausal women with advanced breast cancer, effect of, 641-648
- 17a-hydroxyprogesterone caproate, in treatment of advanced breast carcinoma, postmenopausal, report on, 1218-1220
- oral 11b-hydroxy-17a-methyltestosterone as, use in treatment of advanced breast cancer, comparison of with effect of fluoxymesterone, report of, 726-732
- propylthiouracil, in treatment of thyroid cancer, report on, 1131
- therapy with, in advanced cancer of breast, report on, 334-337
- in cancer of breast, 636-640
- thyroid-stimulating, in treatment of thyroid cancer, report on, 1131, 1134, 1135, 1136
- use of 2a-methyl-5a-dihydrotestosterone in therapy of cancer of breast, report on, 987-991
- HOWIE, D. L., *jt. su.*, 628-632
- HOYE, ROBERT C.; HERROLD, K. McD.; SMITH, ROBERT R., and THOMAS, LOUIS B.: A clinicopathological study of epidermoid carcinoma of the head and neck, 741-749
- HUDSON, RICHARD C., *jt. su.*, 769-775
- HUKILL, PETER B., and STERN, HAROLD: Adenocarcinoma of the lung: histological factors affecting prognosis. A study of 38 patients with resection and 5-year follow-up, 504-514
- HUME, ROXANE, *jt. su.*, 221-226
- HUTTER, ROBERT V. P.; WORCESTER, JAMES N., JR.; FRANCIS, KENNETH C.; FOOTE, FRANK W., JR., and STEWART, FRED W.: Benign and malignant giant cell tumors of bone. A clinicopathological analysis of the natural history of the disease, 653-690
- STEWART, FRED W., and FOOTE, FRANK W., JR.: Fasciitis. A report of 70 cases with follow-up proving the benignity of the lesion, 992-1003
- Hydrocarbon(s), polynuclear aromatic, identified in automobile exhaust "tar," role of in carcinogenesis, 91-102
- Hydrocarbons, isolate and in Hydrolysis ing ages 1068 5-Hydroxy tion of experim contain 611-616 11b-Hydro use in cancer, fluoxym 17a-Hydro treatme nomia, I 1229 Hygiene, oral a State of HYMAN, Hypercal met nat of, and ne w Hyperlip ca 76 atypi me basal por of b as Hypogam with c infecti Hypoglyc nism o Hysterect ve de Wer Incidence de of c 11 of o St tic of o ac in of t on Inclusion cancer ture o In-co-ord noida of, 70 India, in its 35 relat in ge Indonesi 360 Infants, re stud the Infact(t lymph

Hydrocarbon(s)—(Contd.)

isolated from gasoline engine exhaust and from cigarette smoke, role of in carcinogenesis, 103-108

Hydrolysis, of enzyme-alterable alkylating agents, report on, 1046-1050, 1066-1068

5-Hydroxyindolacetic acid, urinary excretion of, effect of local pretreatment of experimental animal wounds prior to contamination with tumor cells and, 611-616

11 β -Hydroxy-17 α -methyltestosterone, oral, use in treatment of advanced breast cancer, comparison of with effect of fluoxymesterone, 726-732

17 α -Hydroxyprogesterone caproate, in treatment of advanced breast carcinoma, postmenopause, report on, 1218-1220

Hygiene, dental, as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 579

HYMAN, GEORGE A., *jr.*, 1076-1080

Hypercalcemia, after therapy with 2-methyl dihydrotestosterone propionate for breast cancer, incidence of, 177-178

and hyperuricemia in disseminated neoplastic disease, association between, 123-126, 127

Hyperplasia(s), adrenal, and oat cell cancer, relationship between, 766-767

atypical, in radical mastectomy specimens, 4-quadrant study of, 12-17

basal cell, in infants and children, report on, 118-121

of bronchial mucosa, of dogs, as result of cigarette smoke condensate, 1102, 1103, 1104, 1105-1108, 1111, 1112, 1115

as result of rubbing manipulation, 1102, 1105, 1106-1108, 1112-1113, 1115

Hypogammaglobulinemia, in patients with chronic lymphatic leukemia and infections, effects of, 308-329

Hypoglycemia, hepatoma-induced, mechanism of, report on, 1188-1196

Hysterectomy, influence of on later development of cancer of breast, epidemiological study of, 28-38

Wertheim, for cervical cancer, 1269, 1270, 1272, 1274

Icn. See Isocitric dehydrogenase

Immunity, clinical and pathological study of resistance to infection in cases of chronic lymphatic leukemia, report on, 307-329

Implantation, of tumor cells, in mice, chemotherapeutic prophylaxis of, 790-796

subcutaneous, of hexestrol, in treatment of breast cancer metastases, effectiveness of, 189-196

Incidence, of cancer as recorded on death certificates, accuracy of, 5-9

of concurrent asbestosis and lung carcinoma, report on, 1184-1185, 1186

of oral and pharyngeal carcinomas in State of Bombay, some observations on, 578-583

of oral cancer, report on, 1121, 1124 according to age, 1120, 1121

results after, 1120

of thyroid cancer, in Israel, report on, 1125-1129

Inclusion bodies, of Leuchtenberger, and cancer and colonic polyps, ultrastructure of, 160-170

In-co-ordination, as symptom of arachnoidal sarcoma of cerebellum, incidence of, 707

India, incidence of male and female genital tract cancer in, discussion of, 359-360

relationship of ABO blood groups to incidence of cancer of breast and genital organs in, 39-41

Indonesia, incidence of male and female genital tract cancer in, discussion of, 360

Infants, and children, fibrosarcomas in, report on, 1028-1040

study of changes in bronchial epithelium of, 118-121

Infarct(s), splenic, study of subintimal lymphatics after, 884, 885

Infection(s). See also specific names

in patients with malignant lymphomas, role of treatment with corticosteroids in spread of, 343

pulmonary, chronic or recurrent, in patients with chronic lymphatic leukemia, report on, 309-329

resistance to, in cases of chronic lymphatic leukemia, clinical and pathological study of, 307-329

with *Escherichia coli*, in mice, effect of chemotherapeutic prophylaxis of implantation metastases and, 790-796

Infiltration, from fibrosarcomas in infants and children, report on, 1028-1040

Inflammation, with or without desquamation, of bronchial mucosa of dogs, effect of cigarette smoke condensate, 1102, 1103, 1104, 1105, 1108-1109, 1110-1111, 1115

effect of rubbing manipulation, 1105, 1115

Inflammatory reaction, in hemangioendothelioma of bone, 848, 850

Infusion(s), intra-arterial, of 8-azaguanine, for localized inoperable neoplasms, report on, 1156-1164

intralymphatic, chemotherapy by, results of, 955-957

constant, of glucose, as test for hypoglycemia, 1190, 1191

Injection, intralymphatic, of radioactive gold, in lymphatic vessels draining intestine in dogs, experimental report on, 623-627

Insulin, measurement in tumor, 1192-1193

Interferometry, to determine nuclear water content during experimental carcinogenesis, 1176, 1177, 1179

Invasion, of nerve sheath and cartilage, in carcinoma of larynx, report on, 264-270

Invasive carcinoma, of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1104, 1105-1112, 1114, 1115

as result of rubbing manipulation, 1104, 1105-1108, 1112-1113, 1115

IOACHIM, H.: Acute leukemia in uniovular twins. Review of genetic aspects of human leukemia, 539-545

5-Iododeoxyuridine, and X ray, in treatment of inoperable bronchogenic carcinoma, report on, 1212, 1213, 1214

5-Iodo-2'-deoxyuridine, used in continuous hepatic artery infusion in treatment of primary and metastatic cancer of liver, report on, 476-488

Irradiation, as initial treatment for cancer of tongue, report on, 1088-1089

combined with hormones, as therapy for cancer of uterine cervix, report of, 437-443

effect of, on serum lactic dehydrogenase and glutamic oxalacetic transaminase levels in patients with malignant tumors, reports on, 818-825

followed by fibrosarcoma of brain, report on, 617-622

2-million volt, in treatment of operable breast carcinoma with proved positive internal mammary and/or highest axillary nodes, survival and results after, 383-386

"Irritation-cancer of Egypt," as reported by Alexander Robert Ferguson, discussion of, 215-216

IRVINE, E. W., JR., and MOFFITT, O. P., JR.: Further studies in treatment of laryngeal papillomas with bovine wart vaccine, 1221-1223

ISHIHARA, ALBERT, *jr.*, 1156-1164

Isocitric dehydrogenase, in patients with gastrointestinal carcinoma, study of, 346-353

Isocitric isomerase, in patients with cancer, levels of, 927-930, 931-935

Israel, thyroid cancer in, incidence of, report on, 1125-1129

treatment of, report on, 1130-1137

S-Index. See 5-Iododeoxyuridine

JACKSON, JOHN F.: Histochemical identification of megakaryocytes from peripheral blood examined for tumor cells, 259-262

JACKSON, LAIRD G.; WALLACE, SIDNEY,

and WEISS, ARTHUR: Chemotherapy by intralymphatic infusion, 955-957

JARVIS, LESTER E., and FALEK, ARTHUR: Comparative data on cancer in aging twins, 1009-1018

JASSEY, LILLIANA, *jr.*, 215-216

Jaundice, obstructive, in patients with gastrointestinal carcinoma, serum enzyme levels in relation to, 349-353

JESSE, RICHARD H., JR., *jr.*, 566-577

Jews, Ashkenazi, with thyroid cancer, report on, 1130-1131, 1132, 1136

Oriental, with thyroid cancer, report on 1130-1131, 1132, 1136

JOHANSSON, O., *jr.*, 232-240

Jordan, incidence of cancer in, epidemiological report of, 66-78

KALLNER, G., *jr.*, 1125-1129

KARNOFSKY, DAVID A., *jr.*, 307-329

KENNEDY, B. J.: Massive estrogen administration in premenopausal women with metastatic breast cancer, 641-648

KERNOHAN, JAMES W., *jr.*, 705-716, 1197-1208

KETCHAM, ALFRED S., *jr.*, 611-616, 797-800

17-Ketosteroids, determinations of, in patients receiving combined hormone and irradiation therapy for advanced cancer of uterine cervix, report on, 439-443

Kidney, malignant oncocytoomas of, description of, 1025

KIM, MATTHEW, *jr.*, 472-488

KIRSTEN, WERNER H.; CARTER, ROBERT E., and PIERCE, MILA I.: Studies on the relationship of viral infections to leukemia in mice. IV. The accelerating agent in AKR mice, 750-758

KLEMPERER, SARAH: The exfoliative cytology of diffuse pleural mesothelioma, 691-704

KLINE, TILDE S.: Cytological examination of the cerebrospinal fluid, 591-597

KNAFF, LEO J., *jr.*, 522-538

KNUTSON, KENNETH P., *jr.*, 1181-1187

KOPMAN, SYDNEY; PERLIA, CHARLES P.; BOESCH, EVELYN; EISENSTEIN, RUBEN, and TAYLOR, SAMUEL G., III: The role of corticosteroids in the treatment of malignant lymphomas, 338-345

KOIVUNEMI, A. P., *jr.*, 972-977

KONTRAS, STELLA B.: Urinary excretion of 3-methoxy-4-hydroxymandelic acid in children with neuroblastoma, 978-986

KRAEMER, STANLEY E., *jr.*, 1041-1055, 1056-1061, 1062-1072

KRAUT, MELVIN J., *jr.*, 1156-1164

KRAUS, FREDERICK T., and NEUBERGER, ROBERT D.: The differential diagnosis of papillary tumors of the breast, 444-455

KRESS, S., *jr.*, 628-632

17-Ks. See 17-Ketosteroids

KUEHN, PAUL, *jr.*, 472-488

Laboratory findings, in upper respiratory tract solitary extramedullary myeloma, 1150

Lactic dehydrogenase, in malignant tumor tissue, effect of irradiation and operation on levels of, 823-825

in patients, with cancer, levels of, 927-930

with gastrointestinal carcinoma, study of, 346-353

LANE, BERNARD R.; WILLIS, NOAH; CRAIG, JAMES W.; LEONARDS, JACK R., and MORIYAKI, TAKESHI: The mechanism of hepatoma-induced hypoglycemia, 1188-1196

LANGHORN, WERNER; KERNOHAN, JAMES W., and UHLEIN, ALFRED: Arachnoidal sarcoma of the cerebellum, 705-716

LARSEN, H. LEE, JR., *jr.*, 606-610

Laryngectomy, in treatment of epidermoid carcinoma of larynx, analysis of, 263-270

Larynx, cancer of, retrospective study of etiological factors in, 246-258

epidermoid carcinoma of, analysis of laryngectomy in treatment of, 263-270

papillomas of, treatment of with bovine wart vaccine, report on, 1221-1223

LATTES, RAFFAELLE: Thymoma and other tumors of the thymus, 1224-1260

and PACHTER, M. RICHARD: Benign lymphoid masses of probable ham-

- artomatous nature. Analysis of 12 cases, 197-214
- LAWRENCE, WALTER, JR., *jt. au.*, 472-488
- Ld. See Lactic dehydrogenase
- Lebanon, and Near East, incidence of cancer in, epidemiological report of, 66-78
- LE BER, MARK S., and STOUT, ARTHUR PURDY: Benign mesenchymomas in children, 598-605
- Leiomyoblastoma, as term to describe bizarre smooth muscle tumors of stomach, use of, 407, 409
- Leiomyoma(s), in children, report on, 958-971
- radiation therapy in palliative management of, results of, 181, 182
- LEONARDS, JACK R., *jt. au.*, 1188-1196
- Lesion(s), benign lymphoepithelial, report of malignant counterpart of, 606-610
- malignant lymphoepithelial, with carcinomatous component, apparently arising in parotid gland, report on, 606-610
- pulmonary, appearing to be of xanthomatous nature, report on, 522-538
- Leukemia, acute, in uniovular twins, report on, 539-545
- in mice, relationship of viral infections to, 750-758
- lymphatic, chronic, clinical and pathological study of resistance to infection in cases of, 307-329
- lymphogenous, study of the lymphatics in, 869-881
- resemblance to findings in cases of infectious mononucleosis, 869-881
- myelogenous, report on lymphatics of spleen in cases of, 882-889
- Leukeran. See Chlorambucil
- Leukocyte(s), in sputum of patients with chronic lymphatic leukemia and pneumonia, type of, 309-329
- Leukoplakia, and cancer of mouth, pharynx, and larynx, report of, 255, 256
- as factor in incidence of oral and pharyngeal carcinoma in State of Bombay, report on, 579
- Leukotomy, for relief of pain from cancer, report on, 890-894
- Liothyronine, sodium, and prednisone in treatment of advanced breast cancer, antitumor efficacy of, 334-337
- Lip. cancer of, retrospective study of etiological factors in, 246-258
- Lipidosis, follicular, of spleen, subintimal lymphatics in cases of, 884, 887, 888
- Lipoid, content of, in xanthomatous and inflammatory pseudotumors of lung, report on, 522-538
- Liposarcoma(s), correlative cytochemical and electron microscopic study of, 776-789
- radiation therapy in palliative management of, results of, 180-181
- LITTLE, JOHN B., *jt. au.*, 921-926
- Liver. See also Cirrhosis
- appearance of, in cases of infectious mononucleosis, and liver in cases of lymphogenous leukemia, similarity of, 869-881
- cirrhotic, metastases to, from extrahepatic tumors, incidence of, 1004-1008
- malignant hepatoma of, in South African Bantu, histochemical study of hydrolytic enzymes in cases of, 855-864
- metastases to, effect of alterations in clotting mechanism on, experimental study of, 276-283
- metastatic adenocarcinoma of, in South African Bantu, histochemical study of hydrolytic enzymes in, 855-864
- primary and metastatic cancer of, effects of continuous hepatic artery infusion of antimetabolites on, 472-488
- tumors of, as instigators of hypoglycemia, report on, 1188-1196
- LLEWELLYN, RAEURN C., and WILSON, CHARLES B.: Saline frontal lobotomy for the relief of pain, 890-894
- LLOYD, JOHN B., *jt. au.*, 1156-1164
- LLOYD, J. WILLIAM, *jt. au.*, 246-258
- Lobectomy, of thyroid, for cancer, report on, 1132, 1134-1135, 1136
- Lobotomy, frontal, saline, for relief of pain, report on, 890-894
- Localization, of intralymphatic injection of radioactive gold, experimental study of, 623-627
- LONG, L., *jt. au.*, 232-240
- LOVINA, TECLA O., *jt. au.*, 1156-1164
- LOWE, ROLLAND, *jt. au.*, 176-178
- LUCAS, JOHN C., JR., *jt. au.*, 1085-1099
- LUCCINI, A.; ARBAZTOA, J., and VARGAS, L.: Metastasis syndrome and effectiveness of subcutaneous implantation of hexestrol in the treatment of breast cancer metastases, 189-196
- Lumbar puncture, as procedure in cases of arachnoidal sarcoma of cerebellum, use of, 709
- LUNDY, BURDETTE W., *jt. au.*, 1138-1141
- Lung, adenocarcinoma of, histological factors affecting prognosis in, 504-514
- cancer of, effect of irradiation and operation on serum lactic dehydrogenase and glutamic oxalacetic transaminase levels in patients with, 818-825
- epidemiological study of air pollutants as possible causative factor in, 79-92
- glycolytic and oxidative enzymes and transaminases in patients with, 931-935
- role of polynuclear aromatic hydrocarbons in automobile exhaust "tar" in development of, 93-102
- sex differences in survival of patients with, 425-432
- carcinoma of, and asbestosis, report on, 1181-1187
- in men, endocrine and other changes in cases of, 109-117
- radio- and chemotherapy for, report on, 1209-1217
- infections of, in patients with chronic lymphatic leukemia, report on, 309-329
- metastases to, effect of alterations in clotting mechanism on, experimental study of, 276-283
- in mice, effect of cortisone and amputation on growth of, 227-231
- from carcinoma of colon and rectum, time of occurrence of, 388-395
- from thyroid cancer, report on, 1133, 1134, 1136
- metastatic tumors of, in mice, effect of pregnancy on, 798-800
- of cat cancer of, 759-768
- of infants and children, study of changes in epithelium of, 118-121
- xanthomatous and inflammatory pseudotumors of, 522-538
- Lymph node(s), cancerous, chemotherapy of by intralymphatic infusion, results of, 955-957
- cervical, involvement of, in cases of nasopharyngeal cancer, prognosis in relationship to, 923-926
- excision of, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- granulomatous and primary neoplastic conditions involving, histochemical study of enzymatic activity of, 139-152
- hyperplastic and normal, investigation of enzymatic activity of, 130-138
- role of dehydrogenases in localization of substrate-specific enzymes in, 130
- lymph node and spleen specimens used in, 130
- inguinal, pelvic, and periaortic, in female genital cancer, lymphangiadenographic study of, 769-775
- involvement of, in epidermoid carcinoma of head and neck, report on, 741-749
- in upper respiratory tract solitary extramedullary myeloma, 1152, 1154
- in uterine cervix cancer, 1270, 1272, 1273, 1274
- metastases to, from carcinoma of breast, 4-quadrant study of radical mastectomy specimen for, 10-17
- from epidermoid carcinoma of larynx, significance of in relation to treatment by laryngotomy, report of, 267-270
- from cat cell cancer, report of, 759-760
- Lymph, stasis of, versus lymphogenous leukemia of spleen, report on, 882-889
- Lymphadenectomy, in treatment of female genital carcinoma, use of lymphography to determine thoroughness of, 774
- Lymphangioma, locally invasive, of adrenal, case reports on, 1165-1169
- Lymphatic(s), chemotherapy via infusion of, results of, 955-957
- of liver and spleen, in cases of infectious mononucleosis and lymphogenous leukemia, report on similarity of, 869-881
- of spleen, secondary carcinoma involving, report on, 884, 886, 887
- study of in diagnosis of leukemias and certain systemic diseases, report on, 882-889
- Lymphoangiadenography (lymphography), in study of female genital cancer, use of, 769-775
- Lymphocyte(s), in normal and neoplastic lymph nodes, investigation of, 132-133, 134-135
- Lymphoepithelioma(s), of nasopharynx, characteristics of, 899, 901, 904, 914-917, 919
- Lymphogram(s), in study of female genital cancer, use of, 769-775
- Lymphography, in study of female genital cancer, use of, 769-775
- Lymphoid elements, in normal and hyperplastic lymph nodes, enzymatic activity in, 132-137
- Lymphoma(s), effect of virus of Venezuela equine encephalomyelitis as antineoplastic agent on, 638-632
- histochemical study of enzymatic activity in, 139-152
- malignant, role of corticosteroids in treatment of, 338-345
- Lymphorrhage(s), proliferative, in infectious mononucleosis and in lymphogenous leukemia, report on, 869-881
- Lymphosarcoma(s), Murphy-Sturm, induced in rat, 1170
- primary, of breast, report on, 1264-1268
- MACDONALD, IAN, *jt. au.*, 1218-1220
- MACHACEK, GERALD F., *jt. au.*, 364-382
- Macrophage(s), as large benign cells in circulating blood, significance of in identification of cancer cells, report on, 972-977
- MALAMUD, NATHAN, *jt. au.*, 617-622
- Malic dehydrogenase, in patients, with cancer, levels of, 927-930, 931-935
- with gastrointestinal carcinoma, study of, 346-353
- MALMGREN, RICHARD A., *jt. au.*, 221-226
- Mammary gland(s). See Breast(s)
- Manipulation, during physical examination or diagnostic procedures, in patients with cancer, relationship of circulating cancer cells and, 232-240
- MANTEL, NATHAN, *jt. au.*, 227-231, 797-800
- Marital status, and artificial menopause, later development of cancer of breast in relationship to, 28-38
- MASSON, JAMES K., *jt. au.*, 1142-1155
- Mastectomy, for lymphosarcoma, 1266, 1267, 1268
- radical, as preferred treatment for connective tissue sarcomas (other than cystosarcoma phylloides) of breast, report on, 421-424
- for breast carcinoma, 4-quadrant study of specimens of, 10-17
- Mating, as possible factor affecting growth of tumors in experimental animals, report on, 798-800
- Maxilla, squamous cell carcinomas of, role of supervoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
- MCGAVRAN, MALCOLM H., *jt. au.*, 263-270
- MCGRATH, R., *jt. au.*, 232-240
- MCGREW, E. A., *jt. au.*, 232-240
- McLAUGHLIN, EDWARD D.: Mitotic-stimulating effect of serum from patients with pelvic cancer, 396-399
- Md. See Malic dehydrogenase

- Measurement of growth of pulmonary metastasis from carcinoma of colon and rectum, method for, 387-395
- Mechlorethamine hydrochloride, effect of sedation on effect of, in rat, 1170-1175
- Medulloblastoma(s), and arachnoid sarcoma of cerebellum, differential diagnosis of, 713-716
- treated by surgery and radiation, with later development of fibrosarcoma of brain, report on, 617-622
- Megakaryocyte(s), as large benign cells in circulating blood, significance of in identification of cancer cells, report on, 972-977
- histochemical identification of from peripheral blood examined for tumor cells, report of, 259-262
- Melanoma(s), palliation of, by regional perfusion of chemotherapeutic agents, report on, 830-845
- S91 Cloudman, in mouse, effect of pregnancy on growth and metastasis of, 797-800
- Melanoplakia, as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 579
- Melphalan. *See* Phenylalanine nitrogen mustard
- MENGEL, CHARLES E., *jt. au.*, 611-616
- Meninges, primary sarcomatosis of, review of and report on, 1197-1208
- Meningiomatosis, of meninges, review of and report on, 1197-1208
- Menopause, and therapy with prednisone and sodium liothyronine for advanced breast cancer, relationship between, 335-337
- artificial, influence of on later development of cancer of breast, epidemiological study of, 28-38
- status of patients with advanced breast cancer in relationship to therapy with 16 α -estradiol dipropionate, report on, 1073-1075
- MERANZE, DAVID R., *jt. au.*, 10-17
- MERSHEIMER, WALTER L., *jt. au.*, 425-432
- Mesenchyme, chondrosarcomas of, as a new entity, further observations on, 410-417
- Mesenchymoma(s), benign, in children, report of, 598-605
- Mesothelioma(s), pleural, diffuse, exfoliative cytology of, 691-704
- Metabolic agent(s), use of, in study of relation of clinical and tissue response to chemotherapeutic action on human cancer, report on, 284-293
- Metabolism, carbohydrate, in hepatoma-induced hypoglycemia, studies of, 1190-1193
- disorders in, extrapulmonary, 1118
- in women with breast cancer, effect of 16 α -estradiol dipropionate therapy on, 1073-1075
- of carbohydrates, in carcinomatosis, tests to determine, 18-27
- of nitrogen and selected electrolytes, in patients with advanced breast cancer, effect of oral 11 β -hydroxy-17 α -methyltestosterone on, 726-732
- of premenopausal women with advanced breast cancer who received massive doses of estrogens, report on, 645
- role of in incidence of malignant hepatoma in South African Bantu, histochemical study of hydrolytic enzymes to determine, 855-864
- Metaplasia(s). *See also* Cell(s), Epithelium(s), and Nucleus(i)
- in benign and malignant giant cell tumors of bone, report of, 657-690
- squamous, in bronchial epithelium of infants and children, observations on, 118-121
- "Metastasis syndrome," and effectiveness of subcutaneous implantation of hexestrol in treatment of breast cancer metastases, report of, 189-196
- Metastasis(es). *See also specific sites* and local extension, from carcinoma of pinna, radiation therapy for, 63-65
- distant, in men with carcinoma of lung, incidence of, 112-113
- in patients with head and neck epidermoid carcinoma, report of, 741-749
- effect of alterations in clotting mechanism on, experimental study of, 276-283
- effect of cortisone and amputation on growth of, 227-231
- tumor-host system used in study of, 227
- from advanced breast cancer, effect of oral 11 β -hydroxy-17 α -methyltestosterone as compared with fluoxymesterone on, 728-732
- from bizarre smooth muscle tumors of stomach, as diagnostic feature of malignancy of, 406-409
- from breast cancer, antitumor, endocrine, and metabolic effects of 16 α -estradiol dipropionate on, 1073-1075
- effect of massive estrogen administration in premenopausal women with, report on, 641-648
- treatment of by subcutaneous implantation of hexestrol, effectiveness of, 189-196
- from bronchogenic carcinoma, 1117
- from cancers associated with malignant acanthosis nigricans, report on, 366-368, 373
- from connective tissue sarcomas (other than cystosarcoma phylloides) of breast, report on, 422-424
- from female genital cancer, use of lymphangiadenography (lymphography) in demonstration of, 769-775
- from hemangioendothelioma of bone, incidence of, 848-849
- from mesenchymal chondrosarcomas, report on, 410-417
- from mouse melanoma, effect of pregnancy on, 797-800
- from mucoepidermoid tumors of major and minor salivary glands, 810, 816-817
- from nasopharyngeal cancers, incidence of, 923-926
- from oral and pharyngeal carcinomas, in State of Bombay, 580-581
- from thymic tumors, 1254, 1255, 1258
- from thyroid cancer, report on, 1132-1133, 1134, 1135, 1136
- hepatic, in cirrhotic liver, from extrahepatic tumor, possible explanations for rarity of, 1006-1007
- and hyperuricemia in disseminated neoplastic disease, association between, 123-126, 127
- serum enzyme levels in patients with, 350-353
- implantation, in mice, chemotherapeutic prophylaxis and growth of, 790-796
- lymph nodes, from epidermoid carcinoma of larynx, significance of in relation to treatment by laryngectomy, report of, 267-270
- regional, from cancer of tongue, report on, 1087-1099
- neurological, from thyroid cancer, report on, 1133, 1134, 1136
- nodal, from carcinoma of breast, 4-quadrant study of radical mastectomy specimen for, 10-17
- of fibrosarcomas in infants and children, incidence of, 1028-1040
- pulmonary, from carcinoma of colon and rectum, time of occurrence of, 387-395
- to bone, from thyroid cancer, report on, 1133, 1134, 1136
- to brain, electroencephalogram in detection of, report on, 1138-1141
- to liver, effects of continuous hepatic artery infusion of antimetabolites on, 472-488
- cirrhotic, from extrahepatic tumors, report on, 1004-1008
- to lung, from thyroid cancer, report on, 1133, 1134, 1136
- to thyroid gland, pathological and clinical findings for, 557-565
- Method, for detection of oral cancer, early, 1119-1121, 1124
- Methotrexate. *See* Amethopterin
- 2 α -Methyl dihydrotestosterone propionate, antitumor efficacy of in cases of advanced breast cancer, report of, 176-178
- 3-Methylcholanthrene, as cervical cell carcinogen, experimental, 1177
- 2 α -Methyl-5 α -dihydro-testolactone, as therapy for cancer of breast, effect of on clinical course and hormonal excretion, report on, 987-991
- MEYER, KENNETH K., *jt. au.*, 633-635, 636-640, 987-991
- Microscope, interference, Baker AO, to determine nuclear water content during carcinogenesis, experiment, 1176, 1177, 1179
- Microscopy, electron, and correlative cytochemical study of liposarcoma, 776-789
- in study of ultrastructure of colonic polyps and cancer, with special reference to epithelial inclusion bodies of Leuchtenberger, report on, 160-170
- of so-called granular cell myoblastoma, report on, 936-954
- of bizarre smooth muscle tumors of stomach, report on, 402, 403-405
- of nasopharyngeal cancers, relationship of survival and mortality rates to, 917-919
- of smooth muscle tumors in children, report on, 962-970
- of xanthomatous and inflammatory pseudotumors of lung, report on, 525-537
- MILLER, DANIEL G.; BUDINGER, JOHN M., and KARNOFSKY, DAVID A.: A clinical and pathological study of resistance to infection in chronic lymphatic leukemia, 307-329
- MILLER, JACOB I., *jt. au.*, 1041-1055, 1056-1061, 1062-1072
- MILMOORE, BENNO K., *jt. au.*, 246-258
- Mithramycin, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- Mitosis(es), in bizarre smooth muscle tumors of stomach, rate of as diagnostic feature, 406-409
- in serum from patients with cancer of pelvic organs, report on, 396-399
- MITRA, SUBODH; MONDAL, SUKDEV, and BASU, ARUN: The study of ABO blood groups in cancer of the female genital organs and cancer of the breast, 39-41
- MOFFITT, O. P., JR., *jt. au.*, 1221-1223
- MONACO, ANTHONY P.; ROTH, SANFORD I.; CASTLEMAN, BENJAMIN, and WELCH, CLAUDE E.: Adenomatous polyps of the stomach. A clinical and pathological study of 153 cases, 456-467
- MONDAL, SUKDEV, *jt. au.*, 39-41
- Mononucleosis, infectious, study of the lymphatics in, 869-881
- resemblance to findings in cases of lymphogenous leukemia, 869-881
- MONTAÑO, GUILLERMO, *jt. au.*, 437-443
- Morbidity, from male and female genital tract cancer in Singapore, report on, 354-363
- of thyroid cancer, in Israel, report on, 1125, 1126, 1127, 1128
- rates, for epidermoid carcinoma of larynx, report on, 264-270
- MORIWAKI, TAKESHI, *jt. au.*, 1188-1196
- Morphology, of familial thyroid cancer, report on, 241-245
- Mortality, from male and female genital tract cancer in Singapore, report on, 354-363
- in rats given sedatives prior to nitrogen mustard therapy, 1170-1174
- in rats treated with nitrogen mustard, report on, 1170-1174
- of patients treated with 8-azaguanine, intra-arterial infusions of, 1159, 1160
- of patients with inoperable bronchogenic carcinoma, treated with radio- and chemotherapy, 1209, 1212-1215
- treated with X ray, 1212, 1213, 1214, 1215, 1216
- of patients with mammary lymphosarcoma, 1266-1268
- of patients with thymic tumors, 1244, 1245, 1246, 1247, 1248, 1251, 1252, 1254, 1255, 1258
- of patients with thyroid cancer, 1133, 1134, 1135, 1136
- in Israel, report on, 1125, 1126, 1127, 1128

- Mortality—(Contd.)**
of patients with upper respiratory tract solitary extramedullary myeloma, 1151-1152, 1154
of patients with uterine cervix cancer, 1270, 1273-1274
rates, for cancer, accuracy of, as recorded on death certificates, 5-9
for epidermoid carcinoma of larynx, report on, 264-270
for patients with nasopharyngeal cancer, report on, 917-918
- Mouse (mice), AKR and C3H/Ga, leukemia in, relationship of viral infections to, 750-758**
(BALB/c \times DBA/2)F₁ female, hybrid (CDBA), in study of effect of local pretreatment of experimental animal wounds prior to contamination with tumor cells, use of, 611-616
C57BL strain or F₁ hybrids, chemotherapeutic prophylaxis of implanted metastases in, 790-796
C57BL/6Jn, in study of effect of cortisone and amputation on pulmonary metastases, use of, 227-231
C3H, experiment on cervical cells of, to determine nuclear water content during carcinogenesis, 1176-1180
DBA strain and F₁ hybrids, use in study of effect of pregnancy on growth of mouse melanoma, 797-800
strain A, in further studies on topical chemotherapy in experimentally implanted cancer, use of, 584-590
- Mouth. See also Oral cavity**
cancer of, clinical appearance of, report on, 1120, 1121-1122, 1124
cytological classification of, 1120, 1123
early, exfoliative cytology of, interim report on, 1119-1124
incidence of, 1121, 1124
in U.S., 1120
patient awareness of lesion, 1122
site of, 1121, 1122
pharynx, and larynx, cancer of, retrospective study of etiological factors in, 246-258
- Mucosa, and submucosa, appearance of in cases of esophageal carcinoma and concomitant intraepithelial carcinoma, report on, 733-740**
bronchial, of dogs, effect of cigarette smoke condensate on, 1100-1116
gastric, carcinoma of, and caffeine intake, 1161-1163
polyp of, adenocarcinoma of, 468-471
in oat cell lung cancer, appearance of, 761, 763
nasal, malignant oncocytomas of, description of, 1023-1025
- Mucus, in mucocutaneous tumors of major and minor salivary glands, characteristics of, 808-809**
- MUIR, C. S.: Male and female genital tract cancer in Singapore, 354-363**
- MULLAN, SEAN, JR. SM., 153-159**
- MULLEN, JOSE M., JR. SM., 1156-1164**
"Multiple causative factors," in development of lung cancer, epidemiological report of, 89
- MUNGUÍA, H., JR. SM., 437-443**
- Muscle(s), semitendinosus and gracilis, liposarcoma of, correlative cytochemical and electron microscopic study of, 776-789**
smooth, of stomach, bizarre tumors of, report on, 400-409
- MUSTACCHI, PIERO, and JARREY, LILIANA: Alexander Robert Ferguson, M.D. On "the irritation-cancer of Egypt," 215-216**
- Mustard(s), nitrogen, methods of synthesis of, 1064-1066**
sulfur, methods of synthesis of, 1041-1072
in cancer chemotherapy, toxicity studies of, 1041-1072
chemical properties of, 1041-1072
- Myasthenia gravis, and thymoma, 1225, 1246-1249, 1258-1259**
- Myeloma, solitary extramedullary, of upper respiratory tract and oropharynx, report on, 1142-1155**
- Myoblastoma(s), granular cell, electron microscopic and histochemical evidence concerning its Schwann cell derivation and nature, 936-954**
- Myxosarcoma(s), and liposarcomas, differentiation of, by correlative cytochemical and electron microscopic study of, 776**
- Nasal vestibule, solitary extramedullary myeloma of, 1149-1151, 1152, 1154**
- NASH, SEYMOUR C.; MALMGREN, RICHARD A.; HUME, ROXANE, and SMITH, ROBERT R.: Tumor cells in postoperative wound drainage, 221-226**
- MENDEL, CHARLES E., and KETCHAM, ALFRED S.: A re-evaluation of the effect of local pretreatment of experimental animal wounds prior to contamination with tumor cells, 611-616**
- Nasopharynx, and antrum, solitary extramedullary myeloma of, 1149-1151, 1152, 1154**
cancer of, clinical and radiotherapeutic considerations of, 921-926
histological classification of, 895-920
solitary extramedullary myeloma of, 1149-1151, 1152, 1154
- NAYAK, RAMNATH V., JR. SM., 1073-1075**
- Near East, and Lebanon, incidence of cancer in, epidemiological report of, 66-78**
- Neck, and head, epidermoid carcinoma of, clinicopathological study of, 741-749**
squamous cell carcinomas of, role of supravoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
glycolytic and oxidative enzymes and transaminases in patients with carcinoma of, 927-930
- Necrosis, radiation, in patients with squamous cell carcinomas of head and neck, types of, 568**
management of, 568
- Neoplasia(s). See also specific names**
human, evidence suggesting deficiency of succinoxidase carrier in, 184-188
malignant, cyclophosphamide as therapy for, clinical appraisal of, 1076-1080
multiple, in men with carcinoma of lung, incidence of, 113
nuclear water content of, report on, 1176-1180
of thymus, primary, 1224-1260
- Nerve(s), cranial, involvement of, in cases of nasopharyngeal cancer, prognosis in relationship to, 923-926**
- NEUBECKER, ROBERT D., and BREEN, JAMES L.: Embryonal carcinoma of the ovary, 546-556**
JR. SM., 444-455
- Neuroblastoma(s), urinary excretion of 3-methoxy-4-hydroxymandelic acid in children with, 978-986**
- Neurological, metastasis, from thyroid cancer, report on, 1133, 1134, 1136**
- Neurology, in study of arachnoid sarcoma of cerebellum, report of, 707-709**
- Nipple, discharge from, in patients with papillomas of breast, incidence and significance of, 447, 453, 455**
- Nitro-BT (2,2'-di-*p*-nitrophenyl-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-biphenylene)-ditetrazolium chloride), use of in determining possible deficiency of succinoxidase carrier in human neoplasms, report of, 184-188**
- Nitrogen mustard, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840**
containing enzyme-susceptible ester bonds, report on, 1062-1072
effect of, effect of sedation on, in rat, 1170-1175
in treatment of oat cell lung cancer, results of, 766
- N,N'-bis[2-(2-chloroethylthio)acetyl]-1,2-ethylendiamine (S-46), as enzyme-alterable alkylating agent used in cancer chemotherapy, clinical evaluation of, 1056-1061**
chemical, biological, and toxicological properties of, 1046-1053
synthesis of, 1043-1046
- Node(s), internal mammary and/or highest axillary, positive, from operable breast carcinoma, survival and results after 2-million volt irradiation in treatment of, 383-386**
lymph, excision of, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
involvement of, in upper respiratory tract solitary extramedullary myeloma, 1152, 1154
in uterine cervix cancer, 1270, 1272, 1273, 1274
- Nodule(s), multiple, in cases of fasciitis, report on, 994-995**
xanthomatous, relationship of, to inflammatory pseudotumor, report on, 536
- NOETZLI, MAX, and MALAMUD, NATHAN: Postirradiation fibrosarcoma of the brain, 617-622**
- Nomenclature, benign and malignant oncocytomas, description of, 1019-1027**
definition and use of term "hemangioendothelioma," 852-853
use of term "oat cell lung cancer" as, 759-768
- NORKIN, STANISLAV A.; HEIMANN, RUDOLF, and FAHIMI, H. DARIUSH: Neoplasms, cirrhosis, and hepatic metastases, 1004-1008**
- Nucleus(i), of cervical mouse cells, water content of during carcinogenesis, report on, 1176-1180**
of malignant mesothelioma cells, use of exfoliative cytology in identification of, 691-704
- Numness, as symptom of arachnoid sarcoma of cerebellum, incidence of, 707**
- Nutrition, as etiological factor in cancer of mouth, pharynx, and larynx, report of, 249-258**
- Oat cell, as type of lung cancer, report of, 759-768**
- Occupation(s). See also specific occupations**
as etiological factor in cancer of mouth, pharynx, and larynx, report of, 248-249
as factor in development of cancer in Lebanon and Near East, epidemiological report of, 74-75
incidence of lung cancer and, epidemiological report of, 86-87
of patients with asbestosis and lung carcinoma, 1184
- Octoiodofluorescein-124, in human brain tumors, localization of, 153-159**
- OKITA, GEORGE T., JR. SM., 153-159**
- OLSON, KENNETH B., JR. SM., 330-333**
- Oncocyte(s), in benign and malignant oncocytomas, description of, 1019-1027**
Oncocytoma(s), benign and malignant, report on, 1019-1027
- ONOFRIO, BURTON M.; KERNOHAN, JAMES W., and UHLEIN, ALFRED: Primary meningeal sarcomatosis. A review of the literature and report of 12 cases, 1197-1208**
- Operation(s), effect of, on serum lactic dehydrogenase and glutamic oxalacetic transaminase levels in patients with malignant tumors, report on, 818-825**
type of, in treatment of thyroid cancer, report on, 1132, 1134-1135, 1136
- Oral cavity. See also specific sites of organs**
carcinomas of, in State of Bombay, some observations on, 578-583
squamous cell carcinomas of, role of supravoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
- Oral hygiene, as etiological factor in cancer of mouth, pharynx, and larynx, report of, 249-258**
- Orbit, melanoma of, recurrent, regional perfusion of chemotherapeutic agents in treatment of, 840-841**
- Organ(s). See also specific names of organs**
Orient, and thyroid cancer, Jews from with, report on, 1123, 1126, 1127, 1128, 1130-1131, 1136
- Oropharynx, and tonsil, solitary extramedullary myeloma of, 1149-1151, 1152, 1154**
and upper respiratory tract, solitary extramedullary myeloma of, report on, 1142-1155

Oropharynx—(Contd.)

- squamous cell carcinomas of, role of supervoltage roentgenotherapy in integration of radiation and surgery as therapy for, 566-577
- Osteoid, in malignant giant cell tumors of bone, report of, 662-663
- Ovary(ies), cancer of, incidence of in Singapore, report on, 354-363
- carcinoma of, embryonal, report on, 546-556
- PA 144. See Mithramycin
- PACHTER, M. RICHARD, *jr.*, *sw.*, 197-214
- Pain, in cancer patients, use of saline frontal lobotomy for relief of, 890-894
- Palliation, of advanced cancer, regional perfusion as chemotherapeutic method for, 828-845
- use of saline frontal lobotomy for relief of pain in, 890-894
- PAM. See Phenylalanine mustard
- Pancreas, carcinoma of, glycolytic and oxidative enzymes of and transaminases in patients with, 346-353
- Papilloma(s), in laboratory animals, development of after painting with engine exhaust gas "tar" or tobacco smoke condensate, incidence of, 104-108
- intraductal, of breast, gross and microscopic appearance of, 447-455
- of larynx, treatment of with bovine wart vaccine, report on, 1221-1223
- Parathyroid, benign oncocytomas of, description of, 1021, 1023
- PARKER, ROBERT G., and WILDERMUTH, ORLISSE: Radiation therapy for lesions overlying cartilage. I. Carcinoma of the pinna, 57-65
- PARKS, RAYMOND E., *jr.*, *sw.*, 769-775
- Parotid gland, as site of origin of mucocutaneous tumors, report on, 802-803, 816
- malignant lymphoepithelial lesion with carcinomatous component apparently arising in, 606-610
- PARSONS, LANGDON, *jr.*, *sw.*, 1269-1274
- Pathology, gross, of bizarre smooth muscle tumors of stomach, report on, 401, 403
- of mesenchymal chondrosarcomas, report on, 410-417
- in acute leukemia in uniovular twins, report on, 540-542
- in upper respiratory tract solitary extramedullary myeloma, 1150-1151
- of thymic tumor, 1226
- PATTERSON, W. BRADFORD, *jr.*, *sw.*, 1156-1164
- PAULADA, J. J.; RUBIO L., BORIS; MONTAÑO, GUILLERMO; DIAZ PERCHES, R.; CASTAÑEDA, ELVIA; MUNGUÍA, H., and DURAZO, F.: Combined hormonal and irradiation therapy in advanced cancer of the uterine cervix, 437-443
- PAYMASTER, J. C.: Some observations on oral and pharyngeal carcinomas in the State of Bombay, 578-583
- Pelvic organs, cancer of, mitotic-stimulating effect of serum from patients with, 396-399
- Penis, cancer of, incidence of in Singapore, report on 354-363
- Pentothal, sodium, effect of, in rat, as sedative prior to nitrogen mustard therapy, 1170-1174
- combined with chlorpromazine, as sedative prior to nitrogen mustard therapy, 1170-1174
- PEPPLER, W. J., and THERON, J. J.: A histochemical study of some of the hydrolytic enzymes in malignant hepatoma of the South African Bantu, 855-864
- Peptic ulcer, and bronchogenic carcinoma, concurrence of, report on, 1117, 1118
- Perfusion, regional, as chemotherapy for human cancer, report on, 828-845
- Peritoneum, of mice, chemotherapeutic prophylaxis for implantation metastases in, 790-796
- PERLIA, CHARLES P., *jr.*, *sw.*, 338-345
- PERRY, HAROLD, and CHU, FLORENCE C. H.: Radiation therapy in the palliative management of soft tissue sarcomas, 179-183
- PHAIR, JOHN J., *jr.*, *sw.*, 489-503
- Pharynx, cancer of, retrospective study of etiological factors in, 246-258
- carcinomas of, in State of Bombay, some observations on, 578-583

- Phenazine methosulfate, effect of, in staining intensity of sections from human neoplasms, use in study of possible deficiency of succinoxidase, report of, 184-188
- Phenylalanine nitrogen mustard, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840
- use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293
- PHILIPPINE ISLANDS, incidence of male and female genital tract cancer in, discussion of, 360
- PHILLIPS, A. J., *jr.*, *sw.*, 5-9
- Phosphatase, acid, in malignant hepatoma in South African Bantu, activity levels of, 858-864
- alkaline, in malignant hepatoma in South African Bantu, activity levels of, 858-864
- Phosphoxetone isomerase, in patients with cancer, levels of, 927-930, 931-935
- in patients with gastrointestinal carcinomas, study of, 346-353
- PICKREN, JOHN W., *jr.*, *sw.*, 557-565
- PIERCE, MILA L., *jr.*, *sw.*, 750-758
- PIRKEL, DONALD: Cyclophosphamide in children with cancer, 42-49
- Pinna, carcinoma of, radiation therapy for, 57-65
- response of underlying cartilage in relationship to, 57-65
- ulceration resulting from, 63
- metastases and local extension in, 63
- Planimetry, to determine nuclear water content during carcinogenesis, experimental, 1176, 1177
- Plasma(s), blood, from patients with endometrial adenocarcinoma, increased histaminolytic power of 271-275
- Plasmacytoma, solitary extramedullary, of upper respiratory tract and oropharynx, report on, 1142-1155
- PLAUT, ALFRED: Locally invasive lymphangiomatosis of adrenal gland, 1165-1169
- Pleura, diffuse mesothelioma of, exfoliative cytology of, 691-704
- Pneumoencephalography, as diagnostic procedure in cases of arachnoidal sarcoma of cerebellum, use of, 709
- Pneumonia, in patients with chronic lymphatic leukemia, incidence of, 309-329
- Pneumonitis, from radiation of lung and 5-fluorouracil, 1209, 1215-1216
- Podophyllin, as cervical cell carcinogen, experimental, 1177, 1178
- Polyp(s), adenomatous, of stomach, clinical and pathological study of, 456-467
- colonic, and cancers, ultrastructure of, with special reference to epithelial inclusion bodies of Leuchtenberger, report of, 160-170
- gastric, adenocarcinoma of, 468-471
- clinical and pathological study of, 456-467
- Polyposis, diffuse, of stomach, results of treatment of, 463, 465-466
- localized, of stomach, results of treatment of, 463, 465
- POSTEL, ALLEN H., *jr.*, *sw.*, 828-845
- POTER, K. GALE, *jr.*, *sw.*, 1156-1164
- Precautions, changes of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1103-1104, 1105-1108, 1111, 1112, 1114, 1115
- as result of rubbing manipulations, 1103-1104, 1105-1108, 1112-1113, 1114, 1115
- Prednisolone, in treatment of malignant lymphomas, report on, 338-345
- Prednisone, and sodium liothyronine, in treatment of advanced breast cancer, antitumor efficacy of, 334-337
- Pregnancy, effect of, on growth and metastasis of mouse melanoma, report on, 797-800
- PRIVE, LUCIEN, *jr.*, *sw.*, 10-17
- Proflavine hemisulfate, local pretreatment of experimental animal wounds prior to contamination with tumor cells, effect of, 611-616
- Progesterone, 17 α -hydroxyprogesterone caproate, in treatment of advanced breast carcinoma, postmenopause, report on, 1218-1220

Progesterone—(Contd.)

- possible influence of, on endometrial adenocarcinoma, in relationship to increased histamine values, report of, 274-275
- Prognosis(es), for adamantinoma of long bones, report on, 515-517, 520-521
- for adenocarcinoma of lung, histological factors affecting, 504-514
- for benign and malignant giant cell tumors of bone, report of, 667-690
- for breast cancer patients, after diagnosis by aspiration biopsy, report on, 827
- for patients with embryonal carcinoma of ovary, report on, 547, 548-549
- of patients with upper respiratory tract solitary extramedullary myeloma, 1151-1152, 1154
- Proliferation, benign, epithelial, in surgical specimens from cancerous female breasts, 4-quadrant study of, 11-17
- of cellular changes, of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1102-1112, 1114, 1115
- as result of rubbing manipulations, 1102-1103, 1105-1108, 1112-1113, 1114, 1115
- Prophylaxis, block dissection for, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- contralateral block dissection for, and homolateral, and thyroidectomy, for cancer, report on, 1132, 1134-1135, 1136
- Propylthiouracil, in treatment of thyroid cancer, report on, 1131
- Prostate, cancer of, incidence of in Singapore, report on, 354-363
- in men with carcinoma of lung, alterations in, 111
- Pseudocholinesterase, in malignant hepatoma in South African Bantu, activity levels of, 858-864
- Pseudotumor(s), xanthomatous and inflammatory, of lung, report on, 522-538
- Psychology, patient delay with reference to stage of cancer, report of, 50-56
- PUGH, See Propylthiouracil
- PUGH, DAVID G., *jr.*, *sw.*, 515-521
- Puromycin, aminonucleoside of, use of, in relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 274-283
- Race, and incidence of nasopharyngeal cancer, report on, 921-922
- and thyroid cancer, report on, 1125, 1126, 1127, 1128
- as factor in incidence of male and female genital tract cancer in Singapore, report on, 354-363
- asbestosis and lung carcinoma, incidence according to, report on, 1184-1185, 1186
- Radiation. See also specific forms of radiation
- and chemotherapy, for inoperable bronchogenic carcinoma, report on, 1209-1217
- and nitrogen mustard, in palliation of oat cell lung cancer, results of, 763, 764, 766
- and surgery, combined therapy with, for squamous cell carcinomas of head and neck, report on, 566-577
- as treatment for nasopharyngeal cancers, results of, 924-926
- combined with corticosteroid therapy, for malignant lymphomas, results of, 339, 340, 341
- epidemiology, report on, 489-503
- for carcinoma of pinna, report of, 57-65
- response of underlying cartilage in relationship to, 57-65
- in palliative management of soft tissue sarcomas, results of, 179-183
- in treatment of arachnoidal sarcoma of cerebellum, results of, 709-710, 715-716
- of benign and giant cell tumors of bone, results of, 669-690
- of mammary lymphosarcoma, 1266, 1267, 1268
- of thymic tumors, 1252, 1254-1255, 1258
- of upper respiratory tract solitary

- Radiation—(Contd.)**
 extramedullary myeloma, 1151, 1154
 of neural tumors in children, effect of on urinary excretion of 3-methoxy-4-hydroxymandelic acid, 978-986
 postoperative, in treatment of thyroid cancer, report on, 1132, 1135, 1136
 therapy to lung, in patients with chronic lymphatic leukemia and infections, role of, 309-329
- Radioactive, galactose tolerance, test for,** 1190, 1192
 glucose decay, measurement of, 1190, 1191, 1192
 gold, intralymphatic injection of, in lymphatic vessels draining intestine in dogs, experimental study of, 623-627
 iodinated serum albumin, use in measuring leakage during regional perfusion for palliation of advanced human cancer, report on, 829-845
 iodine, in treatment of thyroid cancer, report on, 1134, 1135, 1136
 uptake, of thyroid, in thyroid cancer, report on, 1131
- Radioreponse, in combined hormonal and irradiation therapy for advanced cancer of uterine cervix, role of,** 437-443
- Radiotherapy, and chemotherapy, for inoperable bronchogenic carcinoma, report on,** 1209-1217
 for inoperable bronchogenic carcinoma, report on, 1209, 1210, 1211, 1212, 1213, 1214
 for mammary lymphosarcoma, 1266, 1267, 1268
 for thymic tumors, 1252, 1254-1255, 1258
- Radius, distal, as site of giant cell tumors of bone, report on,** 664-690
- RAMAH, SIMON, J., and CHOMET, BERNHARD:** Bronchogenic carcinoma and peptic ulcer, 1117-1118
- RASCH, Oskar, Jr. M.,** 330-333
- Rat(s),** Sprague-Dawley, white, female, partial hepatectomy in, liver regeneration after injection of serum from patients with cancer of pelvic organs in, study of mitotic-stimulating effect from, 396-399
- Wistar, prior sedation effect on nitrogen mustard effect in,** 1170-1175
- Rectum. See also Anus and Colon**
 and colon, carcinoma of, time of occurrence of pulmonary metastasis from, 387-395
- Recurrence(s),** after radical irradiation of head and neck squamous cell carcinomas, management of, 567
 after treatment of connective tissue sarcomas (other than cystosarcoma phylloides) of breast, incidence of, 422-424
 of benign and malignant giant cell tumors of bone after treatment, data on, 667-690
 of benign mesenchymomas in children after treatment, report on, 600-604
 of dermatofibrosarcoma protuberans, incidence of, 718-721, 724
 of epidermoid carcinoma, of head and neck, after treatment, incidence of, 744-749
 of larynx after therapy, report on, 267-270
 of fibrosarcomas in infants and children, report on, 1028-1040
 of mucoepidermoid tumors of major and minor salivary glands, rate of, 810, 812, 813, 816-817
 of nasopharyngeal cancers, incidence of, 925
 primary, of the solitary upper respiratory tract extramedullary myeloma, 1151-1152, 1154
 tumor, presence of tumor cells in postoperative wound drainage in relationship to, 221-226
- Refractometer, to determine albumin solution concentration,** 1177
- Regression(s) of advanced breast cancer, after massive estrogen administration, in premenopausal**
- Regression(s)—(Contd.)**
 women, report on, 642-648
 after treatment with oral 11 β -hydroxy-17 α -methyltestosterone as compared to fluoxymesterone, report of, 728-732
 effect of prednisone and sodium liothyronine on, 334-337
 of advanced human cancer, by regional perfusion of chemotherapeutic agents, report on, 830-834, 837
 of breast cancer metastases, metastasis syndrome and effectiveness of subcutaneous implantation of hexestrol in the treatment of, 189-196
 of cancer in children, after therapy with cyclophosphamide, report of, 42-49
 of malignant lymphoma, after therapy with corticosteroids, report on, 340-345
 of metastatic breast cancer, after therapy with 16 α -estradiol propionate, report on, 1073-1075
- Religion, as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on,** 581-582
 in Lebanon and Near East, as factor in development of cancer, epidemiological report of, 72-74
- REMNIS, WILLIAM H., Jr. M.,** 1142-1155
- Remission(s), of cancer, after therapy with cyclophosphamide, report on,** 1078-1080
- Resection(s), for adenocarcinoma of lung, evaluation of results of,** 504-514
- Respiratory tract. See specific names of organs**
 infections of, in patients with chronic lymphatic leukemia, report on, 309-329
 upper, and oropharynx, solitary extramedullary myeloma of, report on, 1142-1155
- Response, clinical, in patients with advanced cancer of uterine cervix receiving combined hormonal and irradiation therapy, survival and,** 439-443
 in patients with primary and metastatic cancer of liver, to continuous hepatic artery infusion of antimetabolites, report on, 479-488
 of malignant lymphomas to therapy with corticosteroids, criteria for, 340-341
- Reticuloendothelial system. See also specific names of organs**
 chitulum formation, amount of in cases of arachnoidal sarcoma of cerebellum, relation to survival time, 713, 716
- RETIK, ALAN B.; KETCHAM, ALFRED S., and MANTEL, NATHAN:** The effect of pregnancy on the growth and metastasis of a mouse melanoma, 797-800
- Rhabdomyosarcoma(s), radiation therapy in palliative management of, results of,** 181-182
- Ringer's solution, and Armour bovine serum albumin, as protein medium for cervical cells, experimental,** 1176-1177
 for exfoliation of cervical cells, experimental, 1176
- RISA. See Radioactive iodinated serum albumin**
- ROB, CHARLES, Jr. M.,** 623-627
- ROBBINS, GUY F., Jr. M.,** 826-827
- ROBERTS, S. JONASOV, O.; LONG, L.; MCGREY, E. A.; MCGRATH, R., and COLE, W. H.:** Relationship of cancer cells in the circulating blood to operation, 232-240
- ROBINSON, E., and KALLNER, G.:** Occurrence of thyroid cancer in Israel, 1125-1129
 and HOCHMAN, A.: The treatment of thyroid carcinoma, 1130-1137
- ROCKEY, E. E.; SPEER, F. D.; ANN, K. J.; THOMPSON, S. A., and HIROSE, T.:** The effect of cigarette smoke condensate on the bronchial mucosa of dogs, 1100-1116
- Roentgenogram(s), in lymphographic study of female genital cancer, use of,** 770-775
 of mesenchymal chondrosarcomas, appearance of, 411-417
- Roentgenography, in diagnosis of oat cell lung cancer, results of,** 764, 765
- Roentgenography—(Contd.)**
 use of in diagnosis of benign and malignant giant cell tumors of bone, report on, 654-690
- Roentgenotherapy, supravoltage, role of in integration of radiation and surgery as therapy for squamous cell carcinomas of head and neck, report on,** 566-577
- RONGONE, E[dward] L., Jr. M.,** 633-635, 636-640, 987-991
- ROSEN, HARMAN, Jr. M.,** 241-245
- ROSENBERG, SAUL A.:** The effect of prior sedation on nitrogen mustard effect in the rat, 1170-1175
- ROTH, SANFORD L., Jr. M.,** 456-467
- RR. See Radiation response and Radio-sensitivity response**
 Rubbing, of bronchial mucosa of dogs, 1101, 1102, 1105-1108, 1112-1113, 1114, 1115
- RUBIN, PHILIP, Jr. M.,** 623-627
- RUBIO L., BORIS, Jr. M.,** 437-443
- S-6. See 2-Chloroethylthioacetic acid S-46. See N,N'-bis(2-chloroethylthio)acetyl-1,2-ethylenediamine**
- SABESIN, SEYMOUR M., Jr. M.,** 227-231
- SAENGER, EUGENE L., Jr. M.,** 489-503
- SADAFI, DAVID, Jr. M.,** 284-293
- Salivary glands, benign oncocytomas of, description of,** 1021, 1022
 major and minor, mucoepidermoid tumors of, 801-817
 malignant oncocytomas of, 1023
- Salvage rate(s), for patients with epidermoid carcinoma of larynx, report on,** 268
- SANDLER, HENRY C.:** Cytological screening for early mouth cancer. Interim report of the Veterans Administration Co-operative Study of Oral Exfoliative Cytology, 1119-1124
- Saponin, use of, in method for cytological detection of cancer cells in blood,** 171-175
- Sarcoma(s). See also specific names and sites**
 arachnoidal, of cerebellum, report of, 705-716
 breast, atromal, unified approach to, 418-424
 connective tissue, of breast, other than cystosarcoma phylloides, unified approach to, 418-424
 lymphatic, primary, of breast, report on, 1264-1268
 of nasopharynx, characteristics of, 908
 palliation of, by regional perfusion of chemotherapeutic agents, report on, 830-845
 primary, of meninges, type of, report on, 1198-1207
 fibrosarcoma, 1198, 1202-1205
 reticuloendothelial cell, 1198, 1199-1201, 1203-1205
 soft tissue, radiation therapy in palliative management of, 179-183
 spindle cell, radiation therapy in palliative management of, results of, 181, 182
 synovial, radiation therapy in palliative management of, results of, 181, 182
- T241 Lewis, in study of effect of cortisone and amputation on pulmonary metastases, use of,** 227-231
- Sarcomatosis, primary, of meninges, review of and report on,** 1197-1208
- SAS, SAMUEL, Jr. M.,** 1041-1055, 1056-1061, 1062-1072
- Scanning, for human brain tumors after injection of octoiodofluorescein-1²⁵, results of,** 153-155
 scintillation, after intralymphatic injection of radioactive gold in lymphatic vessels draining intestine in dogs, 623-627
- SCARPELLI, D. G., and GREIDER, M. H.:** A correlative cytochemical and electron microscopic study of a liposarcoma, 776-789
- SCHENIN, T. M., and KOIVUNEMI, A. P.:** Large benign cells in circulating blood and their significance in the identification of cancer cells, 972-977
- Schistosoma haematobium, infestation with, and "irritation-cancer of Egypt," as reported by Alexander Robert Ferguson, discussion of,** 215-216

- SCHULZ, MILFORD D., *jt. su.*, 921-926
Schwannoma, granular cell, versus granular cell myoblastoma, electron microscopic and histochemical evidence in support of, 936-954
- SCHWARTZ, MAURICE A.; WEST, MICHAEL; WALSH, WILLIAM S., and ZIMMERMAN, HYMAN J.: Serum enzymes in disease. VIII. Glycolytic and oxidative enzymes and transaminases in patients with gastrointestinal carcinoma, 346-353
- WALSH, WILLIAM S.; WEST, MICHAEL, and ZIMMERMAN, HYMAN J.: Serum enzymes in disease. X. Glycolytic and oxidative enzymes and transaminases in patients with carcinoma of the head, neck, and esophagus, 927-930
- jt. su.*, 931-935
- SCHWARTZ, SEYMOUR I.; GREENLAW, ROBERT H.; ROSE, CHARLES, and RUBIN, PHILIP: Intralymphatic injection of radioactive gold. A preliminary experimental report, 623-627
- Screening, cytological, of early oral cancer, interim report on, 1119-1124
- See Serum(s) enzymes*
- Sedation, prior, effect on nitrogen mustard effect, in rat, 1170-1175
- SEGALOFF, ALBERT; WRETH, J. B.; MEYER, KENNETH K.; RONGONE, E. L., and CUNINGHAM, M. E. G.: Hormonal therapy in cancer of the breast. XIX. Effect of oral administration of Δ^4 -testolactone on clinical course and hormonal excretion, 633-635
- MEYER, KENNETH K.; RONGONE, E. L.; WRETH, J. B., and CUNINGHAM, M. E. G.: Hormonal therapy in cancer of the breast. XX. Effect of testolactone or testosterone propionate on clinical course and hormonal excretion, 636-640
- MEYER, KENNETH K.; WRETH, JOHN B.; RONGONE, EDWARD L., and CUNINGHAM, MARGARET: Hormonal therapy in cancer of the breast. XXI. Effect of 2 α -methyl-5 α -dihydro-testolactone on clinical course and hormonal excretion, 987-991
- SELIGMAN, ARNOLD M., *jt. su.*, 1041-1055, 1056-1061, 1062-1072
- Serum(s), from patients with cancer of pelvic organs, mitotic-stimulating effect of, 396-399
- calcium, levels of, after therapy with 2 α -methyl dihydrotestosterone propionate for breast cancer, report on, 178
- enzymes, in patients with cancer, levels of, 927-930, 931-935
- levels of, in patients with malignant tumors, effect of irradiation and operation on, 818-825
- glutamic oxalacetic transaminase, levels of, in patients with malignant tumors, effect of irradiation and operation on, 818-825
- lactic dehydrogenase, levels of, in patients with malignant tumors, effect of irradiation and operation on, 818-825
- Sex, and race, of patients with mucocutaneous tumors of major and minor salivary glands, frequency rates for, 801, 803, 815, 816
- as factor in survival rates for patients with lung cancer, report on, 425-432
- incidence, of patients with solitary upper respiratory tract extramedullary myeloma according to, 1149
- of thyroid cancer according to, in Israel, report on, 1125, 1126, 1127, 1128
- of patients, with arachnoid sarcoma of cerebellum, data on, 706
- with benign and malignant giant cell tumors of bone, incidence of, 663, 664
- with cancer of mouth, pharynx, and larynx, retrospective study of etiologic factors in relationship to, 246-258
- with cancer of tongue, incidence rates and, 1086
- with fasciitis, report on, 993, 995
- Sex, of patients—(Contd.)
with nasopharyngeal cancer, distribution of, 895-896, 908-909
- SGOT. *See Serum glutamic oxalacetic transaminase*
- SHARKEY, DENNIS A., *jt. su.*, 160-170
- SHIELDS, DONALD F., *jt. su.*, 118-121
- SHIMAKA, KATSUTARO; SOKAL, JOSEPH E., and PICKER, JOHN W.: Metastatic neoplasia in the thyroid gland. Pathological and clinical findings, 557-565
- Side effect(s), after therapy with cyclophosphamide for cancer, report on, 1078-1080
- from corticosteroids used in treatment of malignant lymphomas, report on, 342
- from therapy with 2 α -methyl dihydrotestosterone propionate for breast cancer, report on, 177
- of massive estrogen therapy in premenopausal women with advanced breast cancer, report on, 646
- Side reactions, to bovine wart vaccine, in treatment of laryngeal papillomas, 1222
- SILVERSTEIN, JOSEPH N., *jt. su.*, 1073-1075
- Singapore, male and female genital tract cancer in, report on, 354-363
- Site, anatomic, in cases of fasciitis, report on, 993, 994, 995
- in thyroid, of cancer, report on, 1132
- in upper respiratory tract, of solitary extramedullary myeloma, 1149-1151, 1152, 1154
- of benign mesenchymomas in children, report on, 598, 599, 600-601
- of breast cancer, advanced, 1218, 1219
- of cancers associated with malignant acanthosis nigricans, report on, 364-382
- of lung cancer, sex differences in patients with and survival rates, report on, 429-432
- of lung carcinoma associated with asbestosis, 1184, 1185
- of mammary lymphosarcomas, 1264
- of oral cancer, report on, 1122
- of smooth muscle tumors in children, report on, 959, 960, 961-970
- of uterine cervix cancer, 1270
- specific, of mucocutaneous tumors of major and minor salivary glands, frequency rates for, 801, 802-803, 816
- Size, extent, of primary cancer of tongue, report on, 1087, 1088, 1089
- of adenomatous polyps of stomach, relationship of to malignant change, report on, 458-467
- of mammary lymphosarcomas, 1264
- of mouse melanoma, effect of pregnancy on metastases from, 798-800
- of mucocutaneous tumors of major and minor salivary glands, report of, 803
- of oral cancer, report on, 1121, 1122
- Skeleton. *See also specific anatomic sites*
- Skin, cancer of, in Lebanon and Near East, epidemiological report of, 66-78
- of pinna, carcinoma of, radiation therapy for, 57-65
- SLD. *See Serum lactic dehydrogenase*
- SMITH, ROBERT R., *jt. su.*, 221-226, 741-749
- Smoking. *See also Cigarette(s) and Tobacco*
- and lung cancer, sex differences in patients with and survival rates, report on, 429-432
- as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 582-583
- cigarette, relationship to cancer of lung, 1114, 1115
- habit pattern of patients with asbestosis and lung carcinoma, 1184, 1185
- in urban and rural populations in United States, incidence of lung cancer and, 79-92
- SOKAL, JOSEPH E., *jt. su.*, 557-565
- SOLOMON, ROBERT D., *jt. su.*, 1041-1055, 1056-1061, 1062-1072
- SOMMERS, SHELDON C., *jt. su.*, 109-117
- South Africa, Bantu men from, with malignant hepatoma, histochemical study of hydrolytic enzymes of, 855-864
- South Vietnam, incidence of male and female genital tract cancer in, discussion of, 360-361
- SPEER, F. D., *jt. su.*, 1100-1116
- Spleen, appearance of, in cases of infectious mononucleosis, and in cases of lymphogenous leukemia, similarity of, 869-881
- infarctions of, study of subintimal lymphatics after, 884, 885
- lymphatics of, appearance of, in cases of infectious mononucleosis and lymphogenous leukemia, report on similarity of, 869-881
- study of, in diagnosis of leukemias and certain systemic diseases, report on, 882-889
- lymphogenous leukemia of, lymph stasis and, 882-889
- of leukemic mice, isologous cell-free centrifugates and filtrates from leukemia-accelerating potency of, in newborn AKR mice, report of, 750-758
- Splenic capsule, appearance of, in cases of infectious mononucleosis and lymphogenous leukemia, report on similarity of, 875
- Squamous metaplasia, of bronchial mucosa of dogs, as result of cigarette smoke condensate, 1103, 1104, 1105, 1107, 1111, 1112, 1114, 1115
- as result of rubbing manipulations, 1103, 1105, 1106-1108, 1112-1113, 1115
- See Radio-sensitivity and Sensitization response*
- Stage, of lung cancer, and sex differences in patients with, report on, 426-432
- Staging, of cancer, patient delay with reference to, 50-56
- of carcinoma of pinna, relationship of radiation therapy to, 60-63
- of nasopharyngeal cancers, relationship of survival and, 924-926
- of primary lesion and neck metastases in cases of squamous cell carcinomas of head and neck treated by radiation and surgery, method used in, 566, 567
- Staining, in study of hydrolytic enzymes in cases of malignant hepatoma in South African Bantu, methods used in, 855-864
- in uterine cervix cancer, to detect blood vessel invasion, 1270, 1272-1273
- methods used to verify primary meningeal sarcoma, 1198, 1206, 1207
- with octoiodofluorescein- I^{125} , for localizing human brain tumors, study of, 153-159
- Stains and staining, in correlative cytochemical and electron microscopic study of liposarcoma, report on, 776-789
- for microscopic study of cells in arachnoid sarcoma of cerebellum, types of, 711-713
- Stasis, lymph, versus lymphogenous leukemia of spleen, report on, 882-889
- Statistics. *See also Epidemiology*
- accuracy of cancer diagnosis on death certificates, report of, 5-9
- etiological factors in cancer of mouth, pharynx, and larynx, 246-258
- further investigation of relation between clinical and tissue culture response to chemotherapeutic agents used in human cancer, 284-293
- genetic aspects of acute leukemia in uniovular twins, report on, 539-545
- incidence, of cancer in aging twins, comparative data on, 1009-1018
- of cancer in Lebanon and Near East, 66-78
- of lung cancer in urban versus rural inhabitants, possible role of air pollutants in, 79-92
- of male and female genital tract cancer in Singapore, report on, 354-363
- of oral and pharyngeal carcinomas in State of Bombay, report on, 578-583
- influence of previous hysterectomy on development of breast cancer, 28-38
- methods used in evaluating endocrine and other changes in men

Statistics—(Contd.)

- with carcinoma of lung, report on, 111
- on oral and pharyngeal carcinomas in State of Bombay, report of, 578-583
- on thyroid cancer, incidence in Israel of, report on, 1125-1128
- sex as factor in survival rates for patients with lung cancer, report on, 425-432
- use of, in determining safety of aspiration biopsy, report on, 826-827
- in epidemiological investigation of hazards of doses of radiation, 489-501
- STERLING, THEODOR D.; SAENGER, EUGENE L., and PHAIR, JOHN J.: Radiation epidemiology, 489-503
- STERN, HAROLD, *jt. au.*, 504-514
- Steroid(s). *See also* Hormone(s) and specific names
- adrenal, treatment of patients with chronic lymphatic leukemia and infections by, 310-329
- 17 α -hydroxyprogesterone caproate, in treatment of advanced breast carcinoma, postmenopause, report on, 1218-1220
- 2 α -methyl dihydrotestosterone propionate as, antitumor efficacy in cases of advanced breast cancer, report of, 176-178
- STEWART, FRED W., *jt. au.*, 653-690, 846-854, 992-1003
- Stomach, adenomatous polyps of, clinical and pathological study of, 456-467
- as site of origin of cancers associated with malignant acanthosis nigricans, report on, 366-367, 370
- bizarre smooth muscle tumors of, 400-409
- carcinoma of, and caffeine intake, report on, 1261-1263
- glycolytic and oxidative enzymes and transaminases in patients with, 346-353
- polyp of, adenocarcinoma of, 468-471
- STOUT, ARTHUR PURDY: Bizarre smooth muscle tumors of the stomach, 400-409
- Fibrosarcoma in infants and children, 1028-1040
- jt. au.*, 598-605, 958-971
- Stroma, in mucoepidermoid tumors of major and minor salivary glands, histological appearance of, 808-809
- of adamantinoma of long bones, similarity to that of fibrous dysplasia, report on, 519-520
- patterns of, in benign and malignant giant cell tumors of bone, report on, 653-690
- Succinoxidase, in human neoplasms, suggestion of deficiency of a carrier of, 184-188
- SUCKOW, EARL E.; YOKOO, HIDEJIRO, and BROCK, DONALD R.: Intraepithelial carcinoma concomitant with esophageal carcinoma, 733-740
- Sulfur mustards, containing enzyme-susceptible amide bonds, synthesis, chemical properties, and toxicities of, report on, 1041-1072
- containing enzyme-susceptible ester bonds, report on, 1062-1072
- Surgery. *See also* specific names of operations
- and radiation therapy for medulloblastoma, followed by development of fibrosarcoma of brain, report on, 617-622
- as therapy for mesenchymal chondrosarcomas, results of, 410-417
- as treatment, for cancer of tongue, results of, 1090-1099
- for hemangioendothelioma of bone, report on, 849, 853
- breast, for carcinoma, 4-quadrant study of specimen in, 10-17
- excisional, as treatment of oat cell lung cancer, results of, 765-766
- for cancer, relationship of tumor cells in wound drainage after, and local tumor recurrence, report on, 221-226
- for epidermoid carcinoma of head and neck, results of, 744-749
- for mammary lymphosarcoma, 1266, 1267, 1268

Surgery—(Contd.)

- in combination with regional perfusion of chemotherapeutic agents, in treatment of advanced human cancer, results of, 830-834, 837-838, 843-844
- in treatment, of benign and malignant giant cell tumors of bone, 669-690
- of dermatofibrosarcoma protuberans, results of, 718-721, 724
- of fibrosarcomas in infants and children, results of, 1028-1040
- of upper respiratory tract solitary extramedullary myelomas, 1131, 1154
- relationship of to circulating cancer cells, report of, 232-240
- types of, in treatment of thyroid cancer, 1132, 1134-1135, 1136
- versus radiation, as treatment for carcinoma of pinna, report of, 57-65
- factor of underlying cartilage in relationship to, 57-65
- Survival, after treatment for epidermoid carcinoma of head and neck, report on, 742-749
- and cancer site, and country of origin, 1127
- and thyroid cancer, and delay, 1131, 1136
- and treatment of, 1127
- in Israel, report on, 1127, 1128
- of children after excision of smooth muscle tumors, report on, 959, 960, 962-970
- of infants and children with fibrosarcomas, report on, 1028-1040
- of mice with implantation metastases, effect of chemotherapeutic prophylaxis on, 794-795
- of patients, receiving combined hormonal and irradiation therapy for advanced cancer of uterine cervix, relationship of tumor response to, 439-443
- with embryonal carcinoma of ovary after treatment, report on, 547, 548-549
- with inoperable bronchogenic carcinoma, treated with radio- and chemotherapy, 1209, 1212-1215
- treated with X ray, 1212, 1213, 1214, 1215, 1216
- with lung cancer, histological factors affecting, 509-511
- relationship of resection to, 509-511
- with mammary lymphosarcoma, 1266-1268
- with thymic tumors, 1244, 1245, 1246, 1247, 1248, 1251, 1252, 1254, 1255, 1258
- with thyroid cancer, report on, 1132, 1134, 1135, 1136
- with upper respiratory tract solitary extramedullary myeloma, 1151-1152, 1154
- with uterine cervix cancer, 1270, 1273-1274
- Survival rates, according to stage of cancer and patient delay, report of, 50-56
- after irradiation (2-million volt) in treatment of operable breast carcinoma with proved positive internal mammary and/or highest axillary nodes, report on, 383-386
- for breast cancer patients after aspiration biopsy, report on, 827
- for patients, with arachnoidal sarcoma of cerebellum, report of, 709-710, 715-716
- with carcinoma of colon and rectum, report on, 387-391
- with connective tissue sarcomas (other than cystosarcoma phylloides) of breast, report on, 421-424
- with epidermoid carcinoma of larynx, report on, 266-270
- with metastatic breast cancer, treated by subcutaneous implantation of hexestrol, report on, 193-194
- with nasopharyngeal cancer, report on, 916-918
- after radiation therapy, 923-926
- with squamous cell carcinomas of head and neck treated by radiation and neck resection, report on, 568-577

Survival rates—(Contd.)

- for lung cancer patients, sex as factor in, 425-432
- in relationship to circulating cancer cells after operation or manipulation, report of, 233-239
- Symptom(s), and duration of, before diagnosis of upper respiratory tract solitary extramedullary myeloma, 1149-1150
- in cases of dermatofibrosarcoma protuberans, types of, 717, 718
- in esophageal carcinoma, types of, 733-740
- lack of, in cases of metastatic thyroid carcinoma, report on, 561-564
- of arachnoidal sarcoma of cerebellum, incidence and types of, 706-707
- of benign and malignant giant cell tumors of bone, types of, 664-665
- of cancer, patient delay, and survival rates, report of, 50-56
- of tongue, types of, 1086-1087
- of mesenchymal chondrosarcomas, incidence of, 410-416
- of oat cell lung cancer, incidence and types of, 762-763
- of patients, with embryonal carcinoma of ovary, report on, 546-547, 548-549
- with mammary lymphosarcoma, 1264
- Symptomatology, of nasopharyngeal cancer, report on, 922-923, 925
- Synthesis(es), of sulfur mustards containing enzyme-susceptible amide bonds, report on, 1041-1072
- Syphilis, as etiologic factor in cancer of mouth, pharynx, and larynx, report of, 249-258
- Syria, incidence of cancer in, epidemiological report of, 66-78
- TALLEY, R. W., *jt. au.*, 294-306
- "Tar," isolated from gasoline engine exhaust condensate, carcinogenic properties of, 103-108
- TAYLOR, HERBERT B., and HELWIG, ELSON B.: Dermatofibrosarcoma protuberans. A study of 115 cases, 717-725
- TAYLOR, SAMUEL G., III, *jt. au.*, 338-345
- Tea, intake of, and gastric carcinoma, report on, 1261-1263
- TELLEM, MILTON; PRIVE, LUCIEN, and MERANZE, DAVID R.: Four-quadrant study of breasts removed for carcinoma, 10-17
- TELUS, HENRY, *jt. au.*, 1181-1187
- Test(s), for carbohydrate metabolism, in carcinomatosis, results of, 18-27
- in hepatoma-induced hypoglycemia, 1190-1193
- Testis(es), in men with carcinoma of lung, alterations in, 112
- Δ^4 -Testolactone, effect of oral administration of, on clinical course of breast cancer and on hormonal excretion, report of, 633-635
- Testolactone, or testosterone propionate, effect of, on clinical course of breast cancer and on hormonal excretion, report of, 636-640
- Testosterone propionate, in combined hormonal and irradiation therapy for advanced cancer of uterine cervix, results of, 437-443
- or testolactone, effect of, on clinical course of breast cancer and on hormonal excretion, 636-640
- therapy with, in women with breast cancer, antitumor, endocrine, and metabolic effects of, 1073-1075
- Textile workers, incidence of cancer of mouth, pharynx, and larynx among, report on, 249
- Thailand, incidence of male and female genital tract cancer in, discussion of, 361
- Therapy, for primary and metastatic cancer of liver, continuous hepatic artery infusion of antimetabolites as, 472-488
- hormonal, in cancer of breast, use of 2 α -methyl-5 α -dihydro-testolactone in, 987-991
- laryngectomy as, for carcinoma of larynx, report on, 263-270
- of metastatic breast cancer, use of 16 α -estradiol propionate in, results of, 1073-1075

Therapy—

- second
- carcin
- 268-
- Theron, J.
- THOMAS, A.
- S.
- THOMAS, A.
- meth
- nate
- 178
- jt. au.*
- THOMAS, C.
- THOMAS, V.
- 139-152
- THOMPSON
- Thromboly
- developm
- perimen
- Thymoma,
- Thymus, of
- Thyroid, h
- cancer
- 126-
- lack
- ir
- incide
- tren
- 1
- carcin
- rep
- malign
- of,
- metas
- Thyroid-st
- ment of
- 1134, 11
- Thyroidect
- hont
- 1
- and l
- rep
- and p
- 113
- frequ
- cer
- subto
- 113
- Tibia, pr
- tumors
- TIGERT
- T. O.;
- GERFIE
- FRANK,
- equine
- plastic
- Tissue(s)
- hum
- to
- to cli
- lymp
- gr
- soft,
- an
- Tissue c
- regio
- proced
- TITUS, J.
- CLAGET
- MILTO
- thomas
- mors o
- in
- as a
- m
- of
- as f
- L
- chev
- of
- S
- Tocus,
- EVANS
- The 1
- 1267

Therapy—(Contd.)

secondary, after laryngectomy for carcinoma of larynx, results of, 268-270

THOMAS, J. J., *jt. au.*, 855-864

THOMAS, ANTHONY N.; GORDAN, GILBERT S.; GOLDMAN, LEON, and LOWE, ROLLAND: Antitumor efficacy of 2-methyl dihydrotestosterone propionate in advanced breast cancer, 176-178

jt. au., 334-337

THOMAS, COLIN G., JR., *jt. au.*, 584-590

THOMAS, LOUIS B., *jt. au.*, 741-749

THOMAS, WILLIAM, JR., *jt. au.*, 130-138, 139-152

THOMPSON, S. A., *jt. au.*, 1100-1116

Thrombolytic effect of injections of, on development of metastatic cancer, experimental study of, 276-283

Thymoma, primary report on, 1224-1260

Thymus, thymoma and other tumors of, report on, 1224-1260

Thyroid, benign oncocyctomas of, description of, 1020, 1021

cancer of, familial influences in, 241-245

lack of associated familial goiter in, 241-245

incidence in Israel of, report on, 1123-1129

treatment of, in Israel, report on, 1130-1137

carcinoma of, treatment of, in Israel, report on, 1130-1137

malignant oncocyctomas of, description of, 1023-1025

metastatic carcinoma in, pathological and clinical findings for, 557-565

Thyroid-stimulating hormone, in treatment of thyroid cancer, report on, 1131, 1134, 1135, 1136

Thyroidectomy, and block dissection, for cancer, 1132, 1134-1135, 1136

homolateral and prophylactic contralateral, report on, 1132, 1134-1135, 1136

and lymph node excision, for cancer, report on, 1132, 1134-1135, 1136

and prophylactic block dissection, for cancer, report on, 1132, 1134-1135, 1136

frequency of metastatic thyroid cancers found at time of, 563

subtotal, for cancer, report on, 1132, 1134-1135, 1136

Tibia, proximal, as site of giant cell tumors of bone, report on, 664-690

TIGERTT, W. D.; CROSBY, W. H.; BERGE, T. O.; HOWIE, D. L.; KNESS, S.; DAN-GRFIELD, H. G.; BARR, J. W., and FRANK, W.: The virus of Venezuelan equine encephalomyelitis as an antineoplastic agent in man, 628-632

Tissue(s). *See also specific names*

human, cancer, cultures of, further investigation between response of to chemotherapeutic agents and clinical response, 284-293

lymphoid, benign tumors of, of probable hamartomatous nature, analysis of, 197-214

granulomatous and primary neoplastic conditions of, study of enzymatic activity of, 139-152

soft, benign lymphoid tumors of, of probable hamartomatous nature, analysis of, 197-214

Tissue culture sensitivity test, use in regional perfusion of human cancer, procedure for, 835, 844

TITUS, JACK L.; HARRISON, EDGAR G.; CLAGETT, O.; THRON, ANDERSON, MILTON W., and KNAFF, LEO J.: Xanthomatous and inflammatory pseudotumors of the lung, 522-538

Tobacco. *See also Cigarette(s) and Smoking*

as etiological factor in cancer of mouth, pharynx, and larynx, report of, 246-248, 250-252, 256-258

as factor in development of cancer in Lebanon and Near East, epidemiological report of, 75

chewing, as factor in incidence of oral and pharyngeal carcinomas in State of Bombay, report on, 582-583

TOCUS, EDWARD C.; OKITA, GEORGE T.; EVANS, JOSEPH P., and MULLAN, SEAN: The localization of octiodifluorescein-125 in human brain tumors, 153-159

Tolbutamide tolerance tests, in carcinomatosis, results for, 22

response, test for, 1190

Tongue, cancer of, report on, 1085-1099

Tonal(s), and oropharynx, solitary extramedullary myeloma of, 1149-1151, 1152, 1154

Toxicity, after continuous hepatic artery infusion of antimetabolites in treatment of primary and metastatic cancer of liver, report on, 479-488

from radio- and chemotherapy, for inoperable bronchogenic carcinoma, report on, 1210, 1211, 1212, 1215, 1216

from treatment with cyclophosphamide in cancer in children, report of, 46, 47-49

local, after regional perfusion of chemotherapeutic agents in treatment of advanced human cancer, report on, 838-840

of 8-azaguanine, intra-arterial infusions of, for localized inoperable cancer, 1159-1161, 1162-1163

of nitrogen mustard, in rat, 1170-1174

of sulfur mustards containing enzyme-susceptible amide bonds, study of, 1041-1055

of vincleukoblastine, used as therapy for solid disseminated human cancer, report on, 295-306

systemic, after regional perfusion of chemotherapeutic agents in treatment of advanced human cancer, report on, 838-839

Transaminase(s), glycolytic and oxidative, in patients with gastrointestinal carcinoma, study of, 346-353

in patients with cancer, levels of, 927-930, 931-935

Transformation, of benign giant cell tumors of bone to malignant giant cell tumors of bone, role of radiation in, 679-690

Trauma(s), preceding development of dermatofibrosarcoma protuberans, incidence of, 718

Treatment, for adamantinoma of long bones, amputation as, 521

for mucoepidermoid tumors of major and minor salivary glands, results of, 812, 815, 816-817

for patients with embryonal carcinoma of ovary, report on, 547, 548-549

for thymic tumors, 1233, 1236, 1237, 1238, 1240, 1243, 1244, 1247, 1248, 1251, 1252, 1254-1255, 1258

of adenomatous polyps of stomach, results of, 461-467

of benign, and malignant, giant cell tumors of bone, results of, 667-690

mesenchymomas in children, results of, 600-604

of cancer, of thyroid, in Israel, report on, 1130-1137

of tongue, results of, 1085, 1088-1099

of carcinoma, of thyroid, in Israel, report on, 1130-1137

of intraductal papillomas and papillary carcinomas, results of, 447, 451-455

of laryngeal papillomas, with bovine wart vaccine, report on, 1221-1223

of mammary lymphosarcoma, 1266, 1267, 1268

of thyroid cancer, with antithyroid hormone, report on, 1131

with radiation, postoperative, report on, 1132, 1135, 1136

with radioactive iodine, report on, 1134, 1135, 1136

with thyroid-stimulating hormone, report on, 1131, 1134, 1135, 1136

of upper respiratory tract solitary extramedullary myeloma, 1151, 1153, 1154

operative, types of, for thyroid cancer, report on, 1132, 1134-1135, 1136

radiation, for nasopharyngeal carcinoma, clinical and radiotherapeutic considerations of, 921-926

with 17 α -hydroxyprogesterone caproate, for advanced breast cancer, report on, 1218-1220

with intra-arterial infusions of 8-

Treatment—(Contd.)

azaguanine, for localized inoperable neoplasms, report on, 1156-1164

X-ray and chemical, for inoperable bronchogenic carcinoma, report on, 1209-1217

Triethylenephosphoramide, as chemotherapeutic agent used in regional perfusion of human cancer, report on, 829-840

use of, in study of relation of clinical and tissue culture response to chemotherapeutic agents on human cancer, report on, 284-293

TSH. *See* Thyroid-stimulating hormone

TSPA. *See* Triethylenephosphoramide

TUCKER, J. L., JR., *jt. au.*, 294-306

Tumor(s). *See also specific types of*

advanced, inoperable, solid, in children, results of cyclophosphamide therapy for, 42-49

amyloid, in upper respiratory tract solitary extramedullary myeloma, 1152, 1153, 1154

animal, in further studies on topical chemotherapy in experimentally implanted cancer, use of, 584-590

benign, fasciitis as, report on, 992-1003

giant cell, of bone, clinicopathological analysis of natural history of, 653-690

mesenchymomas as, in children, report of, 598-605

brain, human, localization of octiodifluorescein-125 in, 153-159

breast, in women, antitumor, endocrine, and metabolic effects of 16 α -estradiol dipropionate on, 1073-1075

cells, histochemical identification of megakaryocytes from peripheral blood examined for, 259-262

in postoperative wound drainage, study of, 221-226

dermatofibrosarcoma protuberans as, "cart wheel" or "whirligig" pattern as diagnostic feature of, 720-724

esophageal, and intraepithelial carcinoma of esophagus, possible multiple origin of, 733-740

extrahepatic, metastases to cirrhotic liver from, report on, 1004-1008

fibroblastic, in infants and children, report on, 1028-1040

germ cell, embryonal carcinoma of ovary as, report on, 546-556

giant cell, of bone, benign and malignant, clinicopathological analysis of natural history of, 653-690

growth of in infected milieu, effect of chemotherapeutic prophylaxis on, 790-796

human, solid, disseminated, therapy with vincleukoblastine for, cytological and clinical observations on, 294-306

intracranial, cytological examination of cerebrospinal fluid from patients with, 591-597

lymphoid, benign, of probable hamartomatous nature, analysis of, 197-214

histological criteria for diagnosis of, 198-199

malignant, determination of histaminolytic power of plasma in, 271-275

effect of irradiation and operation on serum lactic dehydrogenase and glutamic oxalacetic transaminase levels in patients with, 818-825

giant cell, of bone, clinicopathological analysis of natural history of, 653-690

lymphoepithelial, with carcinoma-tous component, apparently arising in parotid gland, report on, 606-610

mesenchymal, in infants and children, report on, 1028-1040

mucoepidermoid, coexistent with transitional cell carcinoma of nasopharynx, characteristics of, 905

variants of, 801, 809-810

multiple, in association with epidermoid carcinoma of head and neck, report on, 742-743, 749

- Tumor(s)—(Contd.)
 nasopharyngeal, clinical and radiotherapeutic considerations of, 921-926
 neural, in children, urinary excretion of 3-methoxy-4-hydroxymandelic acid in, 978-986
 of bone, benign and malignant, giant cell, clinicopathological analysis of natural history of, 653-690
 of thymus, primary, report on, 1224-1260
 P-815-MI ascitic mast cell, use in study of local pretreatment of experimental animal wounds prior to contamination with tumor cells, 611-616
 papillary, of breast, differential diagnosis of, 444-455
 polyoma virus, multifocal, in mice, in relationship to viral infections and incidence of leukemia, report of, 755-756
 pulmonary, metastatic, in mouse, effect of pregnancy on, 798-800
 smooth muscle, in children, report on, 958-971
 of stomach, bizarre, report on, 400-409
 Twins, aging, comparative data on incidence of cancer among, 1009-1018
 uniovular, acute leukemia in, report on, 539-545
 Type(s), of bronchogenic carcinoma, 1210, 1211
 UHLEIN, ALFRED, *jt. au.*, 705-716, 1197-1208
 Ulcer, gastric, preceding gastric cancer associated with malignant acanthosis nigricans, report on, 370
 peptic, and bronchogenic carcinoma, concurrence of, report on, 1117-1118
 ULTMANN, JOHN E.: Hyperuricemia in disseminated neoplastic disease other than lymphomas and leukemias, 122-129
 United States, as place of origin, and thyroid cancer, report on, 1125, 1126, 1127, 1128
 Upper alimentary tract. *See also specific names of organs*
 Upper respiratory tract. *See also names of specific sites*
 Uptake, radioactive iodine, of thyroid, in thyroid cancer patients, report on, 1131
 Urinary tract. *See also specific names of organs*
 Uterine cervix, advanced cancer of, combined hormonal and irradiation therapy of, 437-443
 Uterus. *See also Cervix*
 cancer of, incidence of in Singapore, report on, 354-363
 Vaccine, bovine wart, in treatment of laryngeal papillomas, report on, 1221-1223
 VAITEKVICIUS, V. K.; TALLEY, R. W.; TUCKER, J. L., JR., and BRENNAN, M. J.: Cytological and clinical observations during vincleukoblastine therapy of disseminated cancer, 294-306
 Vanilmandelic acid, urinary excretion of, in children with neuroblastoma, report of, 978-986
 VARGAS, L., *jt. au.*, 189-196
 VEE. *See* Venezuelan equine encephalomyelitis
 Vein(s), trabecular, subintimal lymphatics of, appearance of, in cases of infectious mononucleosis and lymphogenous leukemia, report on similarity of, 875
 Venezuelan equine encephalomyelitis, virus of, as antineoplastic agent in man, report on, 628-632
 Ventricle, as diagnostic procedure in cases of arachnoid sarcoma of cerebellum, use of, 709
 VERMUND, H., *jt. au.*, 1209-1217
 VIMONTE, MANUEL L., JR., *jt. au.*, 769-775
 Vincleukoblastine, as therapy for disseminated cancer, cytological and clinical observations on, 294-306
 in combination with glutamic acid, 296, 298-303
 Virus(es). *See also names of specific organisms*
 infections, in mice, relationship of to leukemia, report on, 750-758
 of Venezuelan equine encephalomyelitis, as antineoplastic agent in man, report on, 628-632
 Vital statistics, diagnosis of cancer on death certificates, accuracy of, 5-9
 VLB. *See* Vincleukoblastine
 VMA. *See* Vanilmandelic acid
 VOGLER, WILLIAM R.; LLOYD, J. WILLIAM, and MILMORE, BENNY K.: A retrospective study of etiological factors in cancer of the mouth, pharynx, and larynx, 246-258
 VOLK, HERBERT; CIPRUT, SOLOMON, and ESCHER, GEORGE: Hormonal therapy in advanced breast cancer. II. Effect of oral 11 β -hydroxy-17 α -methyltestosterone compared with fluoxymesterone on clinical course and its effect on metabolism of nitrogen and selected electrolytes, 726-732
 Vomiting, as symptom of arachnoid sarcoma of cerebellum, incidence of, 707
 Vulva, carcinoma of, lymphangiadenography (lymphography) in study of, 769-775
 WALKER, DOROTHY G., *jt. au.*, 284-293
 WALLACE, SIDNEY, *jt. au.*, 955-957
 WALSH, WILLIAM S., *jt. au.*, 346-353, 927-930, 931-935
 WANG, C. C.; LITTLE, JOHN B., and SCHULZ, MILFORD D.: Cancer of the nasopharynx. Its clinical and radiotherapeutic considerations, 921-926
 Warfarin, effect of injections of, on development of metastatic cancer, experimental study of, 276-283
 WARREN, RICHARD, *jt. au.*, 1261-1263
 Water, content of in tumor cells, report on, 1176-1180
 WATSON, WILLIAM L., and BERG, JOHN W.: Oat cell lung cancer, 759-768
 WEAVER, ZEBULON, III, and THOMAS, COLIN G., JR.: Further studies on potential chemotherapy in experimentally implanted cancer, 584-590
 WEBB, HARRY E.; HARRISON, EDGAR G.; MASON, JAMES K., and REMINE, WILLIAM H.: Solitary extramedullary myeloma (plasmacytoma) of the upper part of the respiratory tract and oropharynx, 1142-1155
 WECHSLER, HARRY, *jt. au.*, 936-954
 WEETH, JOHN B., *jt. au.*, 633-635, 636-640, 987-991
 WEINBERG, TOBIAS, *jt. au.*, 1041-1055
 WEINBERG, SHIRLEY; HICHT, ARTHUR, and GOLDNER, MARTIN G.: Tests of carbohydrate metabolism in carcinoma-tosis, 18-27
 WEISS, ARTHUR, *jt. au.*, 955-957
 WELCH, CLAUDE E., *jt. au.*, 456-467
 WEST, MICHAEL; SCHWARTZ, MAURICE A.; WALSH, WILLIAM S., and ZIMMERMAN, HYMAN J.: Serum enzymes in disease. XI. Glycolytic and oxidative enzymes and transaminases in patients with cancer of the lung, 931-935
jt. au., 346-353, 927-930
 WEXLER, HILDA, *jt. au.*, 227-231
 WICKES, GEORGE E., JR., *jt. au.*, 1041-1055
 WILDERMUTH, ORLISSE, *jt. au.*, 57-65
 WILLERT, BENGT, *jt. au.*, 271-275
 WILLIAMS, MARJORIE J., and SOMMERS, SHELTON C.: Endocrine and certain other changes in men with carcinoma of the lung, 109-117
 WILLIAMSON, CHARLES E., *jt. au.*, 1041-1055, 1056-1061, 1062-1072
 WILLS, NORM, *jt. au.*, 1188-1196
 WILSON, CHARLES B., *jt. au.*, 890-894
 WITTEN, BENJAMIN; WILLIAMSON, CHARLES E.; SASS, SAMUEL; MILLER, JACOB I.; BEST, ROLAND; WICKES, GEORGE E., JR.; KRAMER, STANLEY P.; WEINBERG, TOBIAS; SOLOMON, ROBERT D.; GOODMAN, LOUIS E., and SELIGMAN, ARNOLD M.: Enzyme-alterable alkylating agents. I. Synthesis, chemical properties, and toxicities of sulfamustards containing enzyme-susceptible amide bonds, 1041-1055
 SASS, SAMUEL; MILLER, JACOB I.; WILLIAMSON, CHARLES E.; GUERINERO, HUMBERTO G.; KRAMER, STANLEY P.; SOLOMON, ROBERT D.; GOODMAN, LOUIS E., and SELIGMAN, ARNOLD M.: Enzyme-alterable alkylating agents. III. Synthesis, chemical properties, and toxicities of mustards containing enzyme-susceptible ester bonds, 1062-1072
jt. au., 1056-1061
 WORCESTER, JAMES N., JR., *jt. au.*, 652-690
 Wound(s), experimental, in mice, local pretreatment of, prior to contamination with tumor cells, effect of, 611-616
 postoperative, drainage from, relationship of tumor cells in, and local tumor recurrence, 221-226
 WRIGHT, JANE C.; COBB, JEWEL P.; GUMPERT, STEPHEN L.; SAFARI, DAVID; WALKER, DOROTHY G., and GOLDBERG, FREDERICK M.: Further investigation of the relation between the clinical and tissue culture response to chemotherapeutic agents on human cancer, 284-293
jt. au., 828-845
 WYNDER, ERNEST L., and HAMMOND, E. CUYLER: A study of air pollution carcinogenesis. I. Analysis of epidemiological evidence, 79-92
 and HOFFMANN, DIETRICH: A study of air pollution carcinogenesis. III. Carcinogenic activity of gasoline engine exhaust condensate, 103-108
jt. au., 28-38, 93-102
 X irradiation. *See also Radiation and Therapy*
 X ray. *See also Radiation and Therapy*
 and chemicals, in treatment of inoperable bronchogenic carcinoma, report on, 1209-1217
 as therapy for epidermoid carcinomas of head and neck, results of, 744-749
 in treatment, of mammary lymphosarcoma, 1266, 1267, 1268
 of thymic tumors, 1252, 1254-1255, 1258
 of upper respiratory tract solitary extramedullary myeloma, 1151, 1154
 postoperative, in treatment of thyroid cancer, report on, 1132, 1135, 1136
 YANNOPOULOS, KAITY, and STOUT, ARTHUR PURDY: Smooth muscle tumors in children, 958-971
 YEH, SHU: A histological classification of carcinomas of the nasopharynx with a critical review as to the existence of lymphoepitheliomas, 895-920
 YOKOO, HIDEJIRO, *jt. au.*, 733-740
 YOUNG, CHARLES, *jt. au.*, 472-488
 ZIMMERMAN, HYMAN J., *jt. au.*, 346-353, 927-930, 931-935
 ZWAVELING, A.: Implantation metastases. Chemotherapeutic prophylaxis and tumor growth in an infected milieu, 790-796

Vol. 1

0-894

AMSON

; MU

OLAND

RAMER

TORIAN

ONMAN

ARNOL

kylation

hemical

sulfu

-suscep

5

con L

GUTH

RAMER

ERT D.

SELIG

ne-alter

Synthe

nd, tox

ing en

, 1062

n., 652

e, loca

ontami

fect of

, rela

and lo

26

EL P.

SAFAD

Y G.

t M.

he rela

d tissu

erapeut

er, 284

ond, E

ollution

of epi

92

A study

is. III

gasoline

103-10

on and

Therap

of in

cinoma

rcinoma

of, 744

lympho

8

4-1255,

solitary

1151,

thyroid

5, 1136

er, Ab

tumors

ation of

with a

ence of

446-353,

astases.

and tu

cu, 790-

INDEX